METRIC
MIL-PRF-89035A
1 August 2002
SUPERSEDING
MIL-PRF-0089035(NIMA)
23 May 2000

PERFORMANCE SPECIFICATION
URBAN VECTOR MAP (UVMap)

This specification has been approved for use by all Departments and Agencies of the Department of Defense.

1. SCOPE

1.1 Scope. This specification defines requirements for the U.S. National Imagery and Mapping Agency (NIMA) Urban Vector Map (UVMap).

1.2 Purpose This product specification provides a description of the content, accuracy, data format, and design of the UVMap product. Conformance to these specifications will assure uniformity of treatment among all mapping and charting elements engaged in a coordinated production and maintenance program for this product.

2. APPLICABLE DOCUMENTS

2.1 General. The documents listed in this section are specified in sections 3 and 4 of this specification. This section does not include documents cited in other sections of this specification or recommended for additional information or as examples. While every effort has been made to ensure the completeness of this list, document users are cautioned that they must meet all specified requirements documents cited in sections 3 and 4 of this specification whether or not they are listed.

2.2 Government Documents

2.2.1 Specifications, standards, and handbooks. The following specifications, standards, and handbooks form a part of this document to the extent specified herein. Unless otherwise specified, the issues of these documents are those listed in the current Department of Defense Index of Specifications and Standards (DODISS) and the supplement thereto, cited in the solicitation (see 6.2).

Beneficial comments (recommendations, additions, deletions) and any pertinent data which may be of use in improving this document should be addressed to: Director, National Imagery and Mapping Agency, ATTN: National Center for Geospatial Intellignce Standards, Mail Stop P-24, 4600 Sangamore Road, Bethesda, MD 20816-5003 by using the Standardization Document Improvement Proposal (DD Form 1426) appearing at the end of this document or by letter.

AMSC N/A **AREA MCGT**

DISTRIBUTION STATEMENT A. Approved for public release; distribution is unlimited.

SPECIFICATIONS

DEPARTMENT OF DEFENSE

MIL-C-89303	-	Military Specification City Graphics, 30 November 1990

STANDARDS

DEPARTMENT OF DEFENSE

MIL-STD-2407	-	Vector Product Format
MIL-STD-2414	-	Bar Coding for Geo-spatial Products
MIL-STD-600001	-	Mapping Charting & Geodesy Accuracy Standard, 26 February 1990

(Unless otherwise indicated, copies of the above specifications, standards, and handbooks are available from the DoD Single Stock Point (DODSSP), 700 Robbins Avenue, Building 4D, Philadelphia, PA 19111-5094.)

2.2.2 Other Government documents, drawings and publications. The following other Government documents, drawings, and publications form a part of this document to the extent specified herein. Unless otherwise specified, the issues are those cited in the solicitation.

DMA Technical Manual (DMA TM) 8358.1 - Datums, Ellipsoids, Grids, and Grid Reference Systems.

NIMA Technical Report (NIMA TR) 8350.2 - Department of Defense World Geodetic System.

(Copies of the above publications are available from the Defense Logistics Agency)

Digital Geographic Information Exchange Standard, Part 4: Feature and Attribute Coding Catalogue (FACC) Edition 1.2, January 1994.

(Copies of the above publications are available from the National imagery and Mapping Agency, Interoperability Standards Division (SES), Mail Stop D-86,4600 Sangamore Road, Bethesda, Md. 20816-5001.)

2.3 Non-Government Publications. The following documents form a part of this document to the extent specified herein. Unless otherwise specified, the issues of the documents which are DoD adopted are those listed in the issue of the DODISS cited in the solicitation. Unless otherwise specified,

the issues of documents not listed in the DODISS are the issues of the documents cited in the solicitation (see 6.2).

Bureau of the Budget, United States National Map Accuracy Standard, GPO, 1947.

(This standard is printed in its entirety in Thompson, Morris M., Maps for America, U.S. Geological Survey, 3rd ed., 1988, p. 104)

ISO 9660. 1988 (E). International Organization for Standardization Information Processing - Volume and File Structure of CD-ROM for Information Interchange. First ed., 1988.

(Application for copies should be addressed to the American National Standards Institute, 1430 Broadway, New York, NY 10018.)

(Non-government standards and other publications are normally available from the organizations that prepare or distribute the documents. These documents also may be available in or through libraries or other information services.)

2.4 Order of Precedence. In the event of a conflict between the text of this document and the references cited herein (except for related associated specifications or specification sheets), the text of this document takes precedence. Nothing in this document, however, supersedes applicable laws and regulations unless a specific exemption has been obtained.

3. REQUIREMENTS

3.1 First Article. When specified (see 6.2), a sample shall be subjected to first article inspection in accordance with 4.2.

3.2 Accuracy.

3.2.1 Absolute Horizontal Accuracy. This represents the difference between the recorded horizontal coordinates of features and their true positions. Absolute horizontal accuracy is expressed as a circular error at 90 percent probability (.9p).

Accuracy specifications for traditional paper maps are expressed in terms of map distances; for digital products such as UVMap, accuracy is expressed in ground distances. The following shows the ground distance horizontal accuracy categories for UVMap product resolution based on a 1:25,000 map scale source:

Class	UVMap CE
1	12.5 m
2	25 m
3	50 m
4	>50 m

3.2.2 Absolute Vertical Accuracy. This represents the difference between the assigned elevation and the true elevation at a specific point. In

this comparison, both elevations must be referenced to MSL. A point's elevation may be listed as a vertex coordinate of a feature.

Vertical accuracy is expressed at 90 percent probability (.9p) linear error as a proportion of the contour interval. The following lists the vertical accuracy categories:

Class	UVMap LE (expressed in contour intervals)
1	0.5
2	1.0
3	2.0
4	>2.0

For UVMap derived from cartographic source, vertical elevation values shall be filled with the VPF null (NaN), as defined in the VPF MIL-Standard section 5.5.2, unless an elevation value is provided on the source material.

3.2.3 Relative Accuracy. NIMA does not have a formal relative accuracy objective for this product.

3.2.4 Displaced Feature Symbols. For the UVMap product, when data are captured from cartographic sources, feature symbols that are displaced

are excluded from the accuracy requirements as stated in 3.2.1 and 3.2.2.

3.3 Datum

3.3.1 Horizontal Datum The horizontal datum for the UVMap product shall be WGS84 as identified in WGS84 Technical Report.

3.3.2 Vertical Datum. The vertical datum for the UVMap product shall be mean sea level (MSL).

3.4 Data Density Levels. UVMap data are collected at a density of detail that approximates that of the City Graphic source.

3.5 Database Source and Extent. Each urban area will be held as a separate database product. Contiguous or connected urban areas shall be combined into a common database. Typically the geographic coverage of the database shall be centered on the urban area. Other factors which influence the geographic coverage of the database are:

a. The inclusion of important features adjacent to the city.

b. Coastal cities where large areas of open water would be included if the city were centered in the database extent.

c. The direction of growth of the city. Where the direction of growth is apparent, the areas of future development are included where feasible so that new features can be added to the existing base.

3.6 Continuity.

a. The UVMap databases shall be organized into VPF libraries such that a seamless product is produced where data are present. Data gaps in a library may exist due to absence of data.

b. Where data collection procedures require individual source sheets, digital files or other media to be combined, features crossing source boundaries shall be continuous whenever possible. Exceptions to this rule occur when more current source data are used and the feature position or presence has changed, or a mismatch occurs due to different specifications of the incorporated source data. In these cases, a discontinuity along a source boundary may occur.

3.7 Thematic Layer Organization. The UVMap databases are organized into libraries which are organized into thematic layers. Each thematic layer is stored as a single coverage within a UVMap library. There are up to two reference coverages and ten thematic data coverages present in each UVMap library.(TABLE 1).

TABLE 1. UVMap coverages by VPF structure level

VPF structure level	**UVMap Coverages (thematic layers)**	**Coverage (Directory) name**
Database		
Library		
Reference Coverages	Tile Reference Library Reference	tileref libref
Thematic Data Coverages	Boundaries Data Quality Elevation Hydrography Industry Physiography Population Transportation Utilities Vegetation	bnd dq elev hydro ind phys pop trans util veg

3.8 Dimensions.

3.8.1 Unit of Measure. The unit of measure for UVMap is metric.

3.9 Feature and Attribute Coding Scheme. The UVMap databases implement the DIGEST Feature Attribute Coding Catalogue (FACC) (see 2.2.2). See Appendix E for a listing of the FACC feature and attribute codes that are allowed in UVMap.

a. Unknown, Not Applicable and Null Values.

(1) Unknown value condition. FACC supports the use of an attribute value which signifies an "unknown" condition. Generally, with few exceptions, FACC implements a value of 0 to represent an unknown data condition for integer values. For text data types, the field will contain the characters "UNK."

During data capture, it may not be possible to determine the value of an attribute using the inclusion conditions or collateral data sources. When FACC provides an attribute value to support the "unknown" condition, it must be used. In cases where the "0" value is already used to represent a valid number, an alternative value is needed to represent the unknown condition. These values may be found in Appendix E.

(2) Not Applicable condition. In some cases a FACC attribute contains a value for a "Not applicable" condition. This does not have the same meaning as "Unknown". For example, the FACC Well feature, AA050, contains the attribute Spring/Well Characteristic Category (scc). If the well has a Product Category attribute value (pro) that is not equal to water (i.e., 116), then the SCC attribute value 2 is entered for the feature indicating the "not applicable" condition. This condition is not the same as having an unknown well feature type.

(3) Null Value conditions. Some features classes may have attribute columns present in the feature table which are defined for some features, but not others. In this case a null value is entered for those attribute values when they do not apply to the feature code. The convention for implementing the null value for FACC is based on the VPF-defined null.

3.10 Coordinate System. UVMap data shall be stored in decimal degrees as geographic coordinates with southern and western hemispheres having a negative sign for latitude and longitude, respectively. The horizontal resolution for the geographic coordinates shall be stored to the equivalent precision of 0.005 arc seconds or 0.000001 decimal degrees.

3.11 Data Format. UVMap shall be produced in Vector Product Format (VPF), which provides a standard format for storing digital vector cartographic data. Refer to the VPF military standard (MIL-STD-2407) for more detail on VPF format and structure. This specification provides guidance for the specific implementation of UVMap in VPF.

3.12 Database Description. The UVMap databases are a vector-based product implemented in VPF. This product is designed to support Geographic Information System (GIS) applications. Data are separated into 10 thematic layers, where each layer contains thematically consistent data. The UVMap

thematic layers are organized into coverages contained in VPF libraries (see TABLE 1). Each coverage contains a set of files that describe the features in that thematic layer.

3.12.1 File Structure. UVMap data shall utilize the standard Disk Operating System (DOS) directory structure as specified in the VPF Military Standard.

3.12.2 Distribution Medium. UVMap will be distributed on CD-ROM disc implementing ISO 9660 for CD-ROM formatting. Multiple libraries may exist on one CD-ROM. No library shall be present on more than one disc.

3.13 VPF Table and File Structure. Three types of VPF files are implemented in UVMap databases: directories, tables, and indices.

3.13.1 Directories. All UVMap database files and tables are contained in a hierarchy of system-level directories in accordance with the VPF standard. Contained within these directories are the tables and indices that provide information about the database.

3.13.2 VPF tables. Each directory within a UVMap database contains VPF tables as defined in the VPF Military Standard (MIL-STD-2407).

3.13.3 Indices. The UVMap product contains four types of indices: spatial indices, thematic indices, variable-length indices, and feature index tables. Spatial indices will be defined for all primitive tables. The structure and format of indices are defined in MIL-STD-2407. A bucket size of 8 shall be used for the creation of spatial indices.

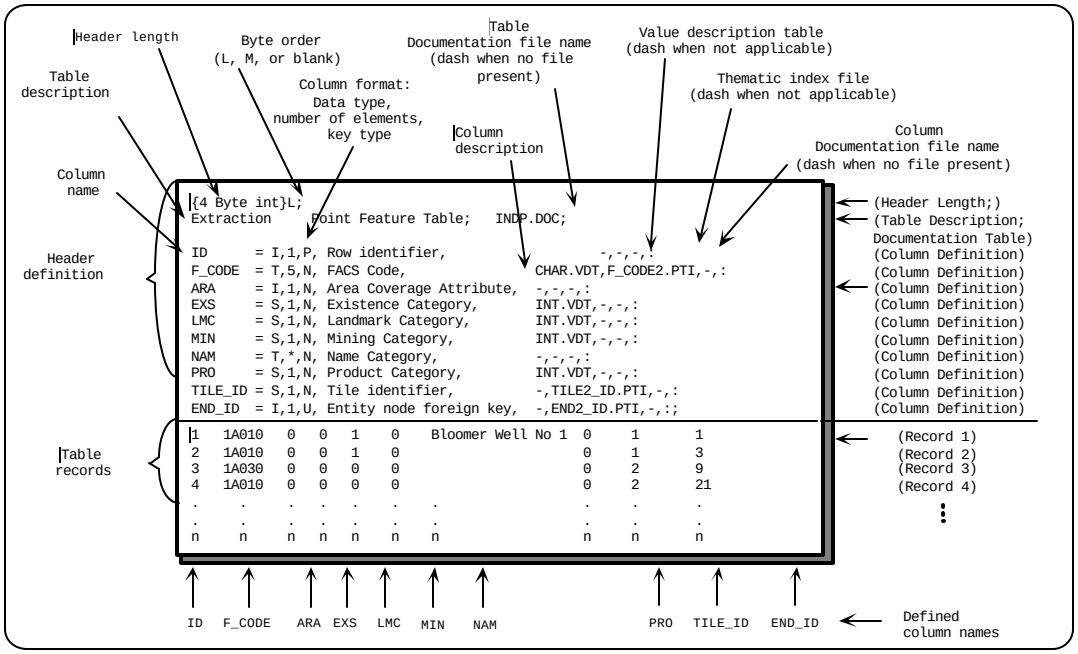


FIGURE 1. Illustration of a VPF table.

NOTES:

1. This is an example of a feature table.
2. The VPF tables defined in this specification shall include all columns specified.
3. Spaces are not a part of the header and are shown for clarity.

3.14 UVMap Directory Organization.

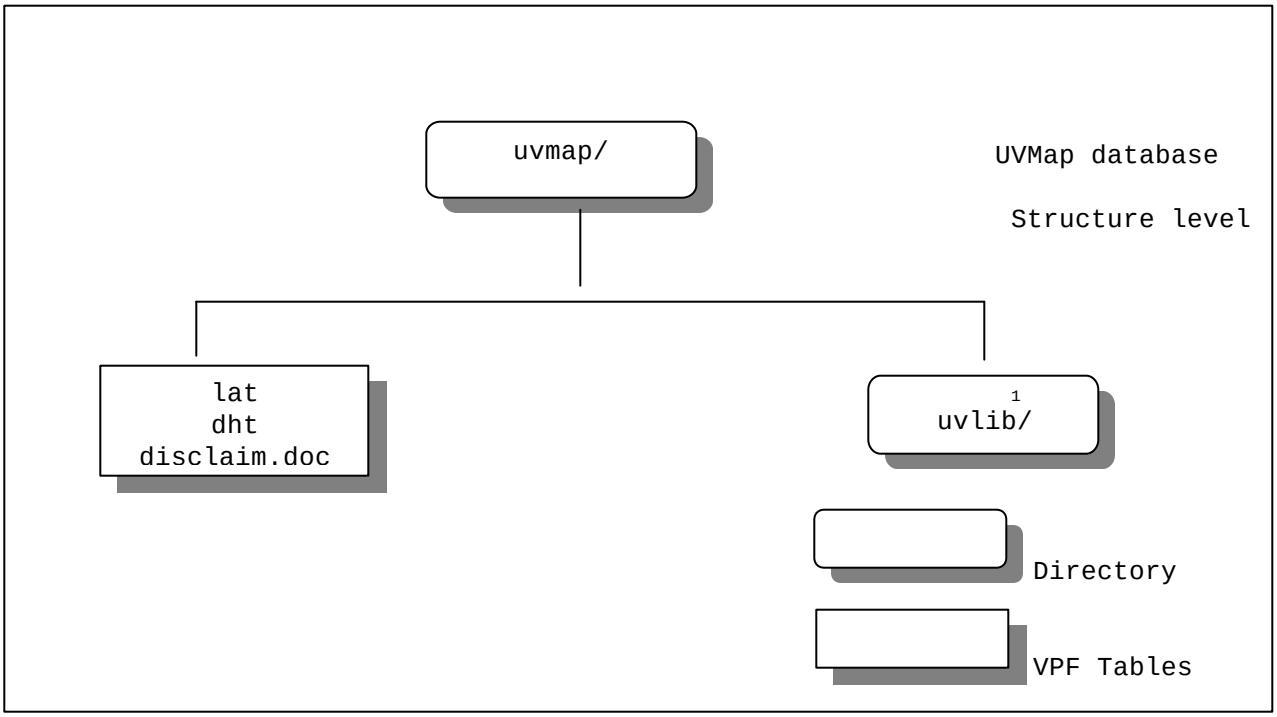
3.14.1 UVMap Digital Files are organized in directories that correspond to VPF structure levels. The directories representing VPF structure levels include database, library, coverage, and feature class. There shall be only one database directory in each UVMap database.

3.14.2 UVMap Library Directories shall contain up to ten thematic data coverage directories and two reference coverage directories. The library directory name reflects the urban geographic area covered by the library.

3.14.3 UVMap Data Hierarchy. UVMap data are organized in a hierarchy of VPF directories. One or more VPF coverage directories are present in each library directory. These coverages contain data representative of the particular VPF structure level. The coverage directory names are shown in TABLE 1.

3.15 VPF Structure Levels, Tables, and Files. The following sections describe the tables and files present according to VPF structure level. The structure levels are presented as follows: database, library, coverage, and feature class. All directory names and file names shall be represented in lower case letters. Each VPF directory contains VPF tables and files that provide information about the database. Some files contain geographic data represented as spatial and tabular files. Other files contain metadata that provide descriptive information about the database and are represented as tabular files.The record layout and content of the UVMap VPF tables and files are described in the appendices to this document.

3.15.1 Database-Level Directory Files. UVMap contains one database directory, named "uvmap." The “uvmap” directory shall be present on each CD-ROM disc containing UVMap libraries, and it shall be the first file appearing on a CD-ROM. A representation of the tables and files appearing in the UVMap database level are depicted in FIGURE 2. The tables and files contained in the UVMap database level are described below in TABLE 2. Content and format for the lat, dht, and disclaim.doc are defined in MIL-STD-2407. Product-specific content information is defined in Appendix B to this specification.



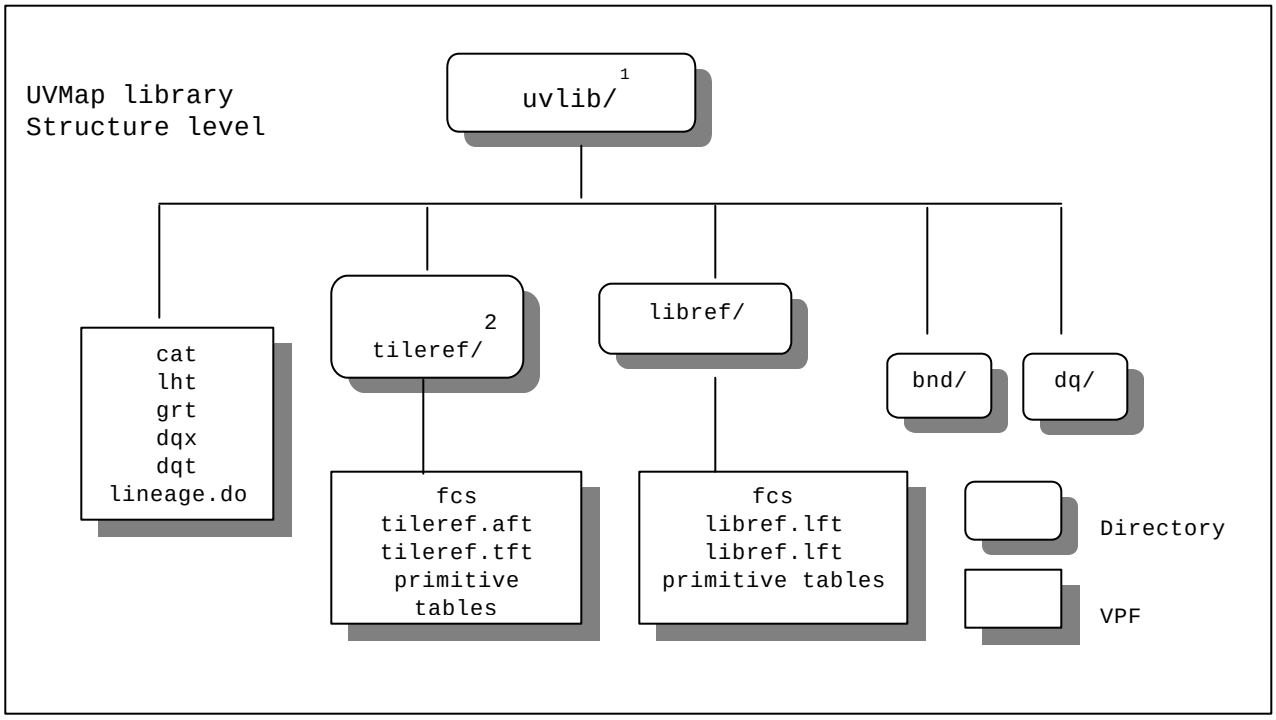
NOTE:
1. These are representative directory names for UVMap libraries.

FIGURE 2. UVMap Database Structure-Level Tables and Files.

TABLE 2. UVMap database-level table, file names and description

Table or File Description	Table or File Name
UVMap database directory	uvmap
Library Attribute Table	lat
Database Header Table	dht
Database Disclaimer Table	disclaim.doc

3.15.2 Library-Level Directory Files. The contents of each UVMap library are stored in a directory whose name shall be the urban area covered by the library, no more than eight characters in length. The entire contents of a UVMap library shall be contained on a CD-ROM. A representation of the tables and files present in the UVMap library level is given in FIGURE 3.



NOTES:
1. These are representative directory names for UVMap libraries.
2. Tileref is present only for tiled libraries.

FIGURE 3. UVMap library structure level

3.15.2.1 Library Metadata. Each library directory shall contain five required metadata tables and one variable-length index. These include the coverage attribute table (cat), library header table (lht), geographic reference table (grt), data quality index (dqx), data quality table (dqt), and

lineage narrative table (lineage.doc). Each UVMap library must contain these six VPF files.

Content and format for the cat, lat, grt, dqt, and dqx are defined in MIL-STD-2407. Product specific content information is defined in Appendix C to this specification.

The lineage.doc table is a data quality file related to the dqt which describes how the data were processed for the database. It provides a textual description of the procedures used to collect the data in each library, including special processing techniques, processing tolerances, feature interpretation rules, and basic production quality assurance procedures, feature integration schemes, and database design issues. This information is common to all coverages in the library.

3.15.2.2 Reference Coverages. Each tiled UVMap library shall contain a Tile Reference Coverage (tileref) and a Library Reference Coverage (libref) as defined in MIL-STD-2407.

The UVMap libref coverages shall be based on representative transportation and political/administrative boundary information in the library area.

TABLE 3. UVMap Library Tables, File Names, and Descriptions

Table or File Description	Table or File Name
Directory	uvlib[1]
Coverage Attribute Table	cat
Library Header Table	lht
Geographic Reference Table	grt
Data Quality Index File	dqx
Data Quality Table	dqt
Lineage Documentation File	lineage.doc
Tile Reference Coverage Directory	uvlib/tileref/
Feature Class Schema Table	fcs
Tile Reference Area Feature Table	tileref.aft
Tile Reference Text Feature Table	tilereft.tft
primitive tables[2] and indices	primitive tables
Library Reference Coverage Directory	uvlib/libref/
Feature Class Schema Table	fcs
Library Reference Line Feature Table	libref.lft
Library Reference Text Feature Table	libreft.tft
primitive tables[2] and indices	primitive tables

[1]These are representative directory names for a UVMap library.

[2]Primitive tables are described in 3.15.5.

3.15.3 Coverage-Level Directory Files. All thematic data coverages are contained within a library directory. All UVMap thematic coverages share the same coordinate system, are spatially registered to one another, and contain primitive tables. A representation of the tables and files in the coverages

are depicted in FIGURE 4. A list of the data coverage directories and a brief description are shown in TABLE 4.

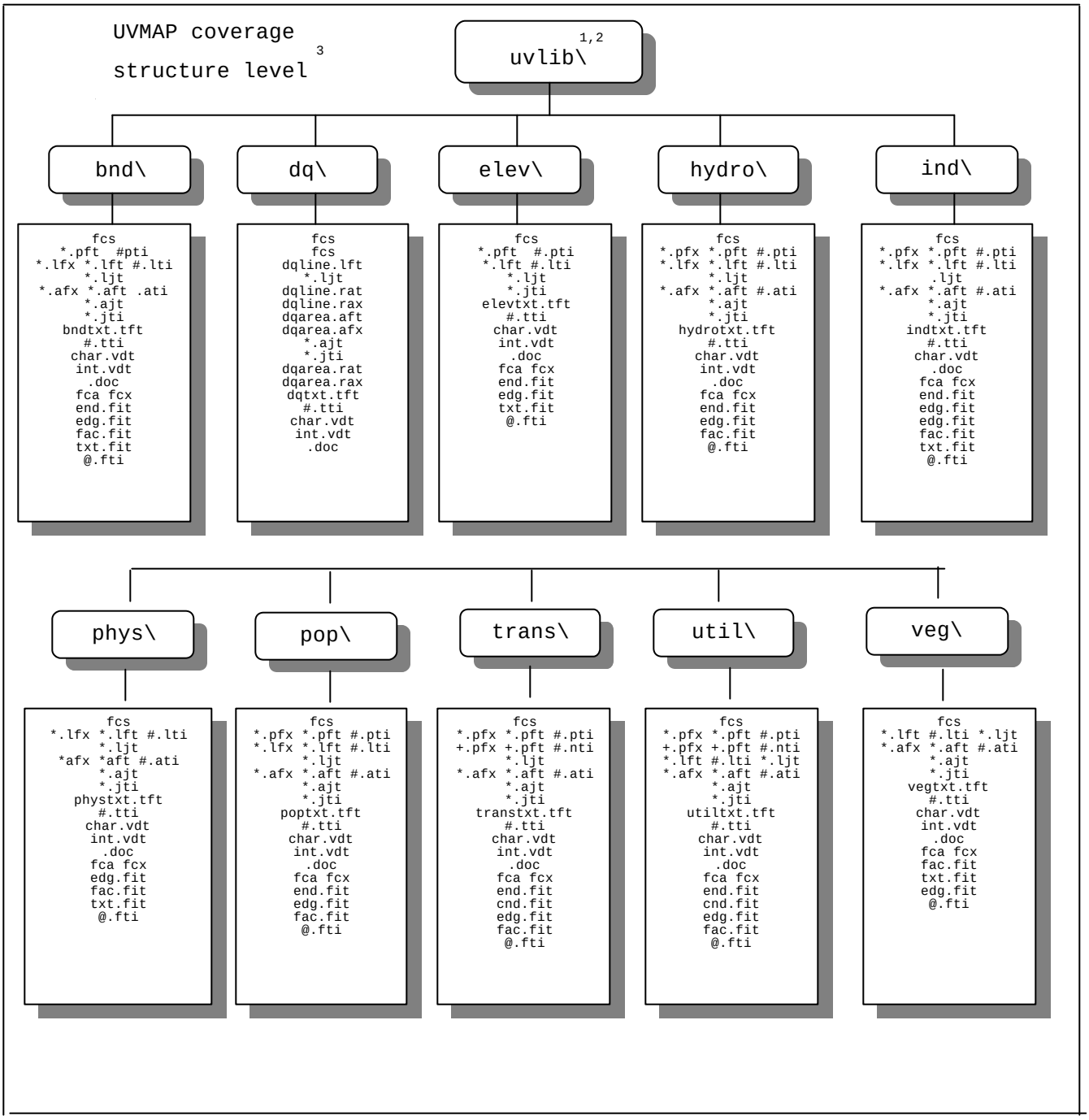


FIGURE 4. UVMap Coverage Level Roadmap

[1] This is a representative library directory name.

[2] The actual combination of tables in each coverage is based on the features present within the coverage for that library.

[3] Not including reference coverages or primitive information.

The pound is replaced with the prefix of the thematic index name, which is based on the column name to which the index refers.

* The asterisk is replaced with the prefix of the point, line, or area feature class name(append with a number if necessary).

+ The plus is replaced with the prefix of the node feature class name which has the same file extensions as the point feature tables.

@ The ampersand is replaced with <primitive>_fitX where <primitive> is fac, edg, end or cnd and X is 1,2,3 or 4.

FIGURE 4. UVMap Coverage Level Roadmap (Continued)

TABLE 4. Coverage, Directories and Descriptions for UVMap Thematic Data Coverages.

Coverage Description	Coverage Name
Boundaries	bnd
Data Quality	dq
Elevation	elev
Hydrography	hydro
Industry	ind
Physiography	phys
Population	pop
Transportation	trans
Utilities	util
Vegetation	veg

3.15.3.1 Coverage Metadata. The metadata tables present and their content will vary with each coverage. Each coverage directory shall contain one feature class schema table (fcs). All coverages that contain feature tables having the FACC feature code column will have a character value description table (char.vdt). If additional FACC attributes are present that require description of their values, then an integer value description table (int.vdt) will be present. Other optional metadata tables include documentation tables (e.g., *.doc) that provide data quality information in textual format pertaining to the coverage, a feature table, or an attribute column. Content and format for these tables are defined in MIL-STD-2407. Product specific content information is provided in Appendix E to this specification.

TABLE 5. UVMap Coverage-Level Metadata Tables and Description.

<coverage name>	Directory file
fcs	Feature class schema table
feature tables	Point, node, line, or area feature tables and indices
char.vdt	Character value description table
int.vdt	Integer value description table
<coverage>.doc	Documentation table for a coverage
<feature class>.doc	Documentation table for a feature class
<attribute>.doc	Documentation table for an attribute within a feature class

For UVMap data libraries, all coverages except tileref, libref and dq shall implement feature indices (feature index tables (fit) and a feature class attribute (fca) table). Examples of a fca and fit for UVMap are provided in Tables 6 and 7.

TABLE 6. Feature Class Attribute Table (fca) Definition.

{Header length}L; Feature Class Attribute Table;-; id=I,1,P,Row Identifier,-,-,-,: fclass=T,8,U,Feature Class Name,-,-,-,: type=T,1,N,Feature Type,char.vdt,-,-,: descr=T,*,N,Description,-,-,-,:;			
1	markersp	P	Markers and Cairns
2	polbndl	L	Demarcation Lines
3	lakeresa	A	Lakes and Reservoirs
:	:	:	:
n	n	n	n

TABLE 7. Format and example of content for Feature Index Table (fit).

{Header length}L; Feature Index Table;-; id=I,1,P,Row Identifier,-,-,-,: prim_id=I,1,N,Primitive ID,-,*_fit1.fti,-,: tile_id[1]=S,1,N,Tile Reference ID,-,*_fit2.fti,-,: fc_id=I,1,N,Feature Class ID,-,*_fit3.fti,-,: feature_id=I,1,N,Feature Table ID,-,*_fit4.fti,-,:;				
1	23	1	8	1
2	189	1	4	56
3	566	4	6	787
4	76	3	5	452
:	:	:	:	:
n	n	n	n	n

1 This column will not be present for untiled coverages.
Note: For the thematic index name, replace the * with the primitive table name being indexed (ex. edg_fit1.fti).

a. Documentation Tables. Documentation (or narrative) tables provide data quality information that describes how the data were processed for a coverage. Topics can include processing tolerances, feature interpretation rules, and basic production quality assurance procedures. Three levels of documentation table may be present in a coverage. These levels include coverage, feature class, and attribute. The presence of documentation tables will vary with each coverage.

<Coverage> Documentation Table Each coverage may have an optional documentation table. If present, this table shall be named so that the prefix contains the same name as the coverage, and the suffix is .doc. This table may contain information that pertains to the lineage and data quality characteristics in general for all features for the coverage.

<Feature class> Documentation Table. Any feature class table may have an associated documentation table, <feature class>.doc, which

is referenced in the feature class table header. Information in this table will pertain to all features in the feature class. The documentation table prefix will reflect the appropriate feature class.

<Attribute> Documentation Table Any attribute column defined in a feature table may have an associated documentation table, <attribute>.doc, which may be referenced in the header of the table and associated with the particular attribute column definition. This table contains information pertaining to that attribute or its values. The documentation table prefix will reflect the appropriate attribute column name. If documentation tables are created for the same attribute column in multiple feature class tables within a coverage, each will have a separate documentation file identified by a unique prefix.

b. Thematic Coverages. There are up to ten thematic coverage directories present in any UVMap library. Within a library, coverage directories shall not be included if no data exists for that coverage within the library's geographic area. The contents of each thematic coverage are stored in a directory whose name shall be represented in lowercase letters with a three- to five-character name representative of the thematic layer name (i.e., bnd for Boundaries coverage, trans for Transportation) as shown in TABLE 4. Coverage-level directories are stored at the VPF coverage level, and reside as subdirectories of each UVMap library directory.

c. Coverage Topology The topology level of each coverage within a library is specified in the library's coverage attribute table (cat). Topology is not supported between coverages.

3.15.4 Feature Class Structure Level

3.15.4.1 Feature Class Definition A feature class is defined as a group of features sharing a homogenous set of attributes and consists of one or more attribute tables and one or more primitive tables. These primitive tables store the spatial or geometric information defining the location of features. In tiled coverages, primitive tables are stored in subdirectories of the coverage directory. Each coverage shall contain at least one feature class. Although a feature class is considered to be a structure level of VPF (along with the database, library, and coverage levels), feature classes are not represented as directories. Rather, the feature class level is represented by a combination of files stored at the coverage level.

a. Feature Class Types. The UVMap database contains five types of feature classes as defined by MIL-STD-2407: point, node, line, area, and text. The suffixes for each feature class type are shown in TABLE 8.

TABLE 8. Feature Table Suffixes.

Point Feature Table	.pft
Node Feature Table	.pft
Line Feature Table	.lft
Area Feature Table	.aft
Text Feature Table	.tft

b. Feature Class/Feature Table Names. Feature class names and descriptions are product specific. Feature class names for UVMap thematic coverages are shown in TABLE 9.

TABLE 9. UVMap Coverages and Feature Classes.

Coverage Name	Feature Classes Point	Node	Line	Area	Text
bnd	markersp		barrierl coastl polbndl	polbnda	bndtxt
dq			dqline	dqarea	dqtext
ele	elevp		contourl		elevtxt
hydro	arrowp miscp wellrpsp		aquedctl daml inshorel miscl seastrtl watrcrsl	coasta dama inunda lakeresa locka misca seastrta watrcrsa	hydrotxt
ind	bldinp cisternp extractp obstrp rigwellp storagep		bldindl extractl indl	bldinda cmpxinda disposea extracta powrinda processa storagea	indtxt
phys	cavep		bluffl embankl faultl	embanka grounda lndfrma	phystxt

TABLE 9. UVMap Coverages and Feature Classes (Continued).

pop	bldpopp landmrkp milp mispopp ruinsp		bldpopl landmrkl mill	bldpopa builtupa cmpxpopa landmrka mila mispopa mobilea plazaa ruinsa	poptxt
trans	lthsp misaerop	bridgec ferryc fordc stationc tunenexc	aerofacl bridgel ferryl fordl pierl railrdl rampl roadl trackl traill traml	aerofaca bridgea harbora prkraila roada stationa	transtxt
util	commp pumpingp	translnc	pipel powerl telel	comma powrutla pumpinga substata	utiltxt
veg			firebrkl hedgel	cropa grassa orcharda swampa treesa	vegtxt

c. Number of Feature Classes The complete set of possible feature classes within each coverage is described in this specification; however, only those feature classes containing data shall be present in a coverage. The presence or absence of a feature class depends upon data content and availability.

d. Text Feature Symbology. The text feature class has an associated related attribute table called the symbol.rat. This table contains information that may be used to replicate the font, style, and point size of text strings found on an original City Graphic or other source for representation on a plot or subsequently printed map. All text (both at the feature and primitive level) will be limited to the characters found in the Latin alphabet primary code table, Figure 24 of the MIL-STD-2407.

3.15.4.2 Feature Table Structure and Contents. All feature tables (in tiled coverages) have the same structure. Each contains a row identifier column (or id) followed by an ‘‘f_code’’ attribute column. Each field in the f_code column contains a five character FACC feature code value. The headings of subsequent attribute columns, if present, are three character FACC attribute codes. The fields in each attribute column contain representative attribute values for that feature code value for a TILE_ID column. This column contains the row ID of the tile reference area feature table record where the tile path name is the tile in the particular feature record. The last column in every feature table is a primitive identifier column which contains the primitive record identifier for the feature record. This column is identified as *_id (the * is replaced with the END, CND, EDG, FAC or TXT primitive table name). Sample point, node, line, area and text feature tables are present in tables 10 thru 14.

Join tables are implemented for all line and area feature tables in the thematic data coverages. Tile_id and edge_id (for line feature tables) or fac_id (for area feature tables) will appear in the join tables for these feature classes. See TABLE 15 for an example of a line feature table join table.

TABLE 10. Format for a Point Feature Table (wellsprp.pft).

```
{Header length}L;
Well Spring Point Feature Table;-;
id=I,1,P,Row Identifier,-,-,-,:
f_code=T,5,N,FACC Feature Code,char.vdt,f_code3.pti,-,:
exs=S,1,N,Existence Category,int.vdt,-,-,:
hyc=S,1,N,Hydrological Category,int.vdt,-,-,:
loc=S,1,N,Location Category,int.vdt,-,-,:
nam=T,*,N,Name,char.vdt,-,-,:
pro=S,1,N,Product Category,int.vdt,-,-,:
scc=S,1,N,Spring/Well Characteristic Category,int.vdt,-,-,:
swt=S,1,N,Well/Spring Type,int.vdt,-,-,:
tra=S,1,N,Traversability,int.vdt,-,-,:
wft=S,1,N,Well Feature Type,int.vdt,-,-,:
tile_id=S,1,N,Tile Reference ID,-,tile3_id.pti,-,:
end_id=I,1,N,Entity Node Primitive ID,-,end3_id.pti,-,:;
```

TABLE 11. Format for a Node Feature Table (ferryc.pft).

```
{Header length} L;
Ferry Crossing Node Feature Table;-;
id=I,1,P,Row Identifier,-,-,-,:
f_code=T,5,N,FACC Feature Code,char.vdt,-,-,:
exs=S,1,N,Existence Category,int.vdt,-,-,:
fcl=S,1,N,Ferry Crossing Length (meters),int.vdt,-,-,:
fer=S,1,N,Ferry Type,int.vdt,-,-,:
nam=T,*,N,Name,char.vdt,-,-,:
tuc=S,1,N,Transportation Use Category,int.vdt,-,-:
tile_id=S,1,N,Tile Reference ID,-,tile2_id.nti,-,:
cnd_id=I,1,N,Connected Node Primitive ID,-,cnd2_id.nti,-,:;
```

TABLE 12. Format for a Line Feature Table (bluffl.lft).

```
{Header length}L;
Bluff Line Feature Table;-;
id=I,1,P,Row Identifier,-,-,-,:
f_code=T,5,N,FACC Feature Code,char.vdt,-,-,:
pfh=S,1,N,Predominant Feature Height (meters),int.vdt,-,-,:
sgc=S,1,N,Gradient/Slope (percent),int.vdt,-,-,:;
```

Notes:

1. The “tile_id” and “edg_ id” column is not present since the thematic coverages implement join tables for the feature to primitive link between line feature tables and edg tables.
2. The reference coverages will contain an additional “edg_id” column since they do not implement join tables.

TABLE 13. Format for an Area Feature Table (orcharda.aft).

```
{Header length}L;
Orchard Area Feature Table;-;
id=I,1,P,Row Identifier,-,-,-,:
f_code=T,5,N,FACC Feature Code,char.vdt,f_code3.ati,-,:
ara=S,1,N,Area Coverage Attribute, (sq. meters),int.vdt,-,-,:
arh=S,1,N,Area Coverage Attribute Hectares,-,-,-,:
pro=S,1,N,Product Category,int.vdt,-,-,:;
```

Notes:

1. The “tile_id” and “fac_id” column is not present since the thematic coverages implement join tables for the feature to primitive link between area feature tables and fac tables.
2. The reference coverages will contain an additional “fac_id” column since they do not implement join tables.

TABLE 14. Format for a Text Feature Table (hydrotxt.tft).

```
{Header length}L;
Hydrography Text Feature Table;-;
id=I,1,P,Row Identifier,-,-,-,:
f_code=T,5,N,FACC Feature Code,char.vdt,f_code1.tti,-,:
symbol_id=S,1,N,Symbol Identification,-,-,-:
tile_id=S,1,N,Tile reference ID,-,tile1_id.tti,-,:
txt_id=I,1,N,Text Primitive ID,-,txt1_id.tti,-,:;
```

Notes:

1. The “tile_id” column will not be present in the reference coverages since they are untiled.

TABLE 15. Format and example content for a Line Feature Join Table (bridgel.ljt).

```
{Header length}L;
Bridge Line Join Table;-;
id=I,1,P,Row Identifier,-,-,-,:
bridgel.lft_id=I,1,N,Feature Table ID,-,bridgel1.jti,-,:
tile_id=S,1,N,Tile Reference ID,-,bridgel2.jti,-,:
edg_id=I,1,N,Edge Primitive ID,-,bridgel3.jti,-,:;
```

Note:

This is a sample join table. Other join tables are identical except for the feature table portion of the name (which can be found in Appendix E).

3.15.5 Primitive Level Files. UVMap implements the four geometric primitives (entity node (end), connected node (cnd), edge (edg) and (fac)) and one cartographic primitive (text (txt)) as defined in MIL-STD-2407. The primitive tables contained in any coverage are dependent on the feature classes present in that coverage. The foreign key columns contained in primitive tables shall be tailored to the coverage’s topology level defined in the cat. For coverages with level 2 topology, entity node tables will not have a containing face column and edge tables will not have left and right face columns. The UVMap primitive tables will not contain feature table id columns where feature index table indices exist. Primitive level supporting files, defined in MIL-STD 2407, are implemented as shown in TABLE 16. Example UVMap primitive tables are shown in TABLES 17 thru 22.

TABLE 16. Primitive Tables and Associated Files.

Primitive Table	File Name	Table Description
Edge Table	esi	Edge Spatial Index File
	ebr	Edge Bounding Rectangle Table
	edx	Edge Variable-length index file
	edg	Edge Primitive Table
Face Table	fsi	Face Spatial Index File
	fbr	Face Bounding Rectangle Table
	fac	Face Primitive Table
	rng	Ring Table
Entity Node Table	nsi	Entity Node Spatial Index File
	end	Entity Node Primitive Table
Connected Node Table	csi	Connected Node Spatial Index File
	cnx	Connected Node Variable-Length Index File
	cnd	Connected Node Primitive Table
Text Table	tsi	Text Spatial Index File
	txx	Text Variable-Length Index File
	txt	Text Primitive Table

TABLE 17. Format and example of Content for Entity Node Primitive Table (end).

```
{Header length}L;
Entity Node Primitive Table;-;
id=I,1,P,Row Identifier,-,-,-:
*.pft_id[1]=I,1,N,Point Feature Table Identifier,-,-,-,:
containing_face[2]=I,1,N,Foreign Key to Face Table,-,-,-,:
coordinate=Z,1,N,Coordinates of Entity Node,-,-,-,:;
```

1	1	2	7.893952	43.774712	0.000000
2	2	3	7.893897	43.773613	0.000000
3	3	4	7.843663	43.768391	0.000000
:	:	:	:		
n	n	n	x.xxxxxx	y.yyyyyy	z.zzzzzz

NOTES:
1. This column will only be present in the tileref and libref coverages. The “*” preceding the “pft_id” is replaced with the appropriate point feature class name. A feature class name must be entered for each point feature class present in the coverage.
2. The containing_face column is present only for coverages of Level 3 topology.

TABLE 18. Format and example of Content for Connected Node Primitive Table (cnd).

{Header length}L;					
Connected Node Primitive Table;-;					
id=I,1,P,Row Identifier,-,-,-,:					
*.pft_id[1]=I,1,N,Node Feature Table Identifier,-,-,-,:					
first_edge=K[2],1,N,Foreign Key to Edge Table,-,-,-,:					
coordinate=Z,1,N,Coordinates of Connected Node,-,-,-,:;					
1	1	2	7.893952	43.774712	0.000000
2	2	3	7.893897	43.773613	0.000000
3	3	4	7.843663	43.768391	0.000000
:	:	:	:		
n	n	n	x.xxxxxx	y.yyyyyy	z.zzzzzz

NOTES:

1. This column will only be present in the tileref and libref coverages. The “*” preceding the “.pft_id” is replaced with the appropriate node feature class name. A feature class name must be entered for each node feature class present in the coverage.
2. Column type “K” is implemented for coverages that are tiled. For untiled coverages the column type is defined as “I”.

TABLE 19. Format and example of Content for Edge (edg) Primitive Table.

```
{Header length}L;
Edge Primitive Table;-;
id=I,1,P,Row Identifier,-,-,-,:
*.lft_id[1]=I,1,N,Line Feature Table ID,-,-,-,:
start_node=I,1,N,Start/Left Node,-,-,-,:
end_node=I,1,N,End/Right Node,-,-,-,:
right_face[2]=K[3],1,N,Right Face,-,-,-,:
left_face[2]=K[3],1,N,Left Face,-,-,-,:
right_edge=K[3],1,N,Right Edge from End Node,-,-,-,:
left_edge=K[3],1,N,Left Edge from Start Node,-,-,-,:
coordinates=Z,*,N,Coordinates of Edge,-,-,-:;
```

1	1	1	2	6 260 210	1 0 0	29 196 14	26 12 18	-10.00	45.00	9.90
2	2	3	5	5 0 0	8 260 214	30 198 12	76 52 48	-7.70	43.69	9.50
								-7.80	43.70	10.69
								-7.90	43.80	9.96
:	:	:	:	:	:	:	:	:		
n	n	n	n	n n n	n n n	n n n	n n n	x.xxxxxx y.yyyyyy z.zzzzzz		

NOTES:
1. This column will only be present in the tileref and libref coverages. The "*" preceding the ".lft_id" is replaced with the appropriate line feature class names. A feature class name must be entered for each line feature class present in the coverage.
2. The right_face and left_face columns are required only for coverages with level 3 topology.
3. Column type "K" is implemented for coverages that are tiled. For untiled coverages the column type is defined as "I."

TABLE 20. Format and example of Content for Face (fac) Primitive Table.

```
{Header length}L;
Face Primitive Table;-;
id=I,1,P,Row Identifier,-,-,-,:
*.aft_id[1]=I,1,N,Area Feature Table ID,-,-,-,;
ring_ptr=I,1,N,Foreign Key to Ring Table,-,-,-,:;
```

1	Null	1
2	75	13
3	97	14
:	:	:
n	n	n

NOTE:
1. This column will only be present in the tileref and libref coverages. The “*” preceding the “.aft_id” is replaced with the appropriate area feature class name. A feature class name must be entered for each area feature class present in the coverage.

TABLE 21. Format and example of Content for Text (txt) Primitive Table.

```
{Header length}L;
Text Primitive Table;-;
id=I,1,P,Row Identifier,-,-,-,:
string=T,*,N,Text String,-,-,-:
shape_line=C,*,N,Shape of Text String,-,-,-,:;
```

1	2	Nolanville	-5.811609	43.662006
2	3	Killeen	-8.574136	43.435287
3	18	Harker Heights	-7.437326	42.881957
4	20	Wainright Heights	-6.835582	40.736553
:	:	:	:	
n	n	n	n	

TABLE 22. Format and example of Content for Ring (rng) Table.

```
{Header length}L;
Ring Table;-;
id=I,1,P,Row Identifier,-,-,-,:
face_id=I,1,N,Foreighn Key to Face Table,-,-,-,:
start_edge=I,1,N,Foreign Key to Edge Table,-,-,-,:;
```

1	1	Null
2	2	47
3	2	51
:	:	:
n	n	n

TABLE 23. Format and example of content for Bounding Rectangle Tables (fbr or ebr).

```
{Header length} L;
Bounding Rectangle Table;-;
id=I,1,P,Row Identifier,-,-,-,;
xmin=F,1,N,Minimum X Coordinate,-,-,-,:
ymin=F,1,N,Minimum Y Coordinate,-,-,-,:
xmax=F,1,N,Maximum X Coordinate,-,-,-,:
ymax=F,1,N,Maximum Y Coordinate,-,-,-,:;
```

1	-76.333359*	36.916660*	-76.250031*	36.999981*
2	-76.333359	36.999451	-76.331215	36.999981
3	-76.333359	36.999431	-76.331215	36.999981
:	:	:	:	:
n	n	n	n	n

NOTE:

For Face Bounding Rectangle Table (fbr), the values for face 1, bounds are VPF null.

3.16 UVMap Tiling Schemes. The tiling scheme for UVMap databases is determined by the City Graphic product source. (A separate tiling scheme will be established for non-cartographic source.) The boundary of each sheet determines the tile boundaries in a UVMap library. Thus tile size is not constant, but varies with the size of each sheet. All thematic data coverages in a library share the same tiling structure and coordinate system. Although a coverage is said to be tiled, tiling of data actually occurs at the primitive level. This ensures that all feature tables are stored intact directly under the coverage directory. For tiled coverages, primitive tables are organized on the basis of physical tile partitions. Tile directories are located under coverage directories such that the primitive tables are subdivided in directories and are stored under the last tile directory. A representative of the table and file organization for tiled primitive tables and files is depicted in FIGURE 5.

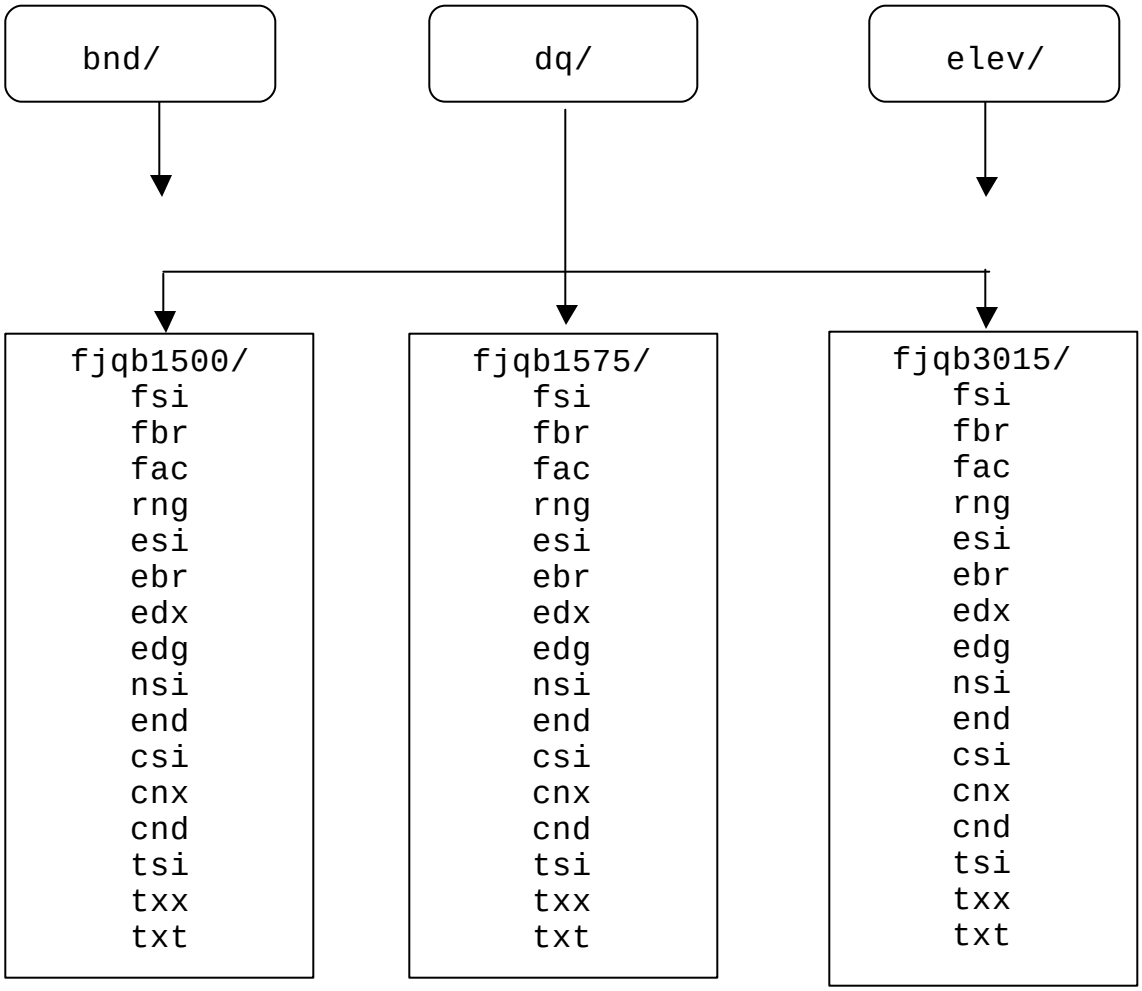


FIGURE 5. UVMap Tile Directory Location.

3.16.1 UVMap Tiling Conventions. The tiles conform to source map sheets, and thus may be any size or shape. Typically the tiles will be rectangular, divided into increments of latitude and longitude.

3.16.1.1 Tile Size. Tile size will vary from urban area to urban area.

3.16.1.2 Tile Directory Description and Naming. Tiles will be named using the GEOREF naming convention to identify the point nearest the southwest corner of the tile that can be represented using whole minutes of latitude and longitude. A total of eight characters (four letters followed by four numbers) is needed to name each tile. The first pair of letters represents the coarsest, 15° by 15° standard GEOREF division, and represents the first coordinate pair identifying the tile name. The first letter represents the first tile partition of the southwest coordinate in the x direction (longitude). There are 24 divisions lettered from A to Z (omitting I and O) according to the 15 degree bands of GEOREF longitude zones. The second letter represents the second partition of the southwest coordinate in the Y direction (latitude). There are 12 divisions lettered from A to M (omitting I) according to the 15 degree GEOREF latitude zones for a total of 288 15° by 15° cells globally.

The second pair of letters represents the 1° by 1° standard GEOREF divisions of each 15° by 15° cell, and represents the second coordinate pair of the tile name. The first letter represents the X coordinate (longitude) of the southwest corner of the tile. There are 15 divisions lettered from A to Q (omitting I and O) according to the 1° bands of GEOREF longitude zones. The second letter represents the Y coordinate (latitude) of the southwest corner of the tile. There are 15 divisions lettered from A to Q (omitting I and O) according to the 1° bands of GEOREF latitude zones. These letters partition each 15° by 15° cell into a total of 225 1° by 1° cells (FIGURE 6).

The pair of (two digit) numbers represents a GEOREF coordinate for the southwest corner of the tile. The coordinates are equivalent to arc minute values. These numbers use the GEOREF concept to represent this division. The first number in the pair represents the X coordinate (longitude) of the point closest to the southwest corner of the tile. The second number represents the Y coordinate (latitude) of the point closest to southwest corner of the tile. Note that the X and Y GEOREF coordinates are always positive, increasing from the southwest corner (origin) of the 1° by 1° cell. Therefore, in the western hemisphere, this X value is the “inverse” of the geographic longitude. Similarly in the southern hemisphere, the Y value is the “inverse” of the latitude value. For example, the tile name (and directory name) containing data located at 90°32’ west longitude and 31°25’ north latitude is fjqb2825.

Note that the UVMap tiles generally do not correspond to the GEOREF cell divisions; rather, the GEOREF cell decomposition is the selected method to systematically name the potential irregular UVMap tiles.

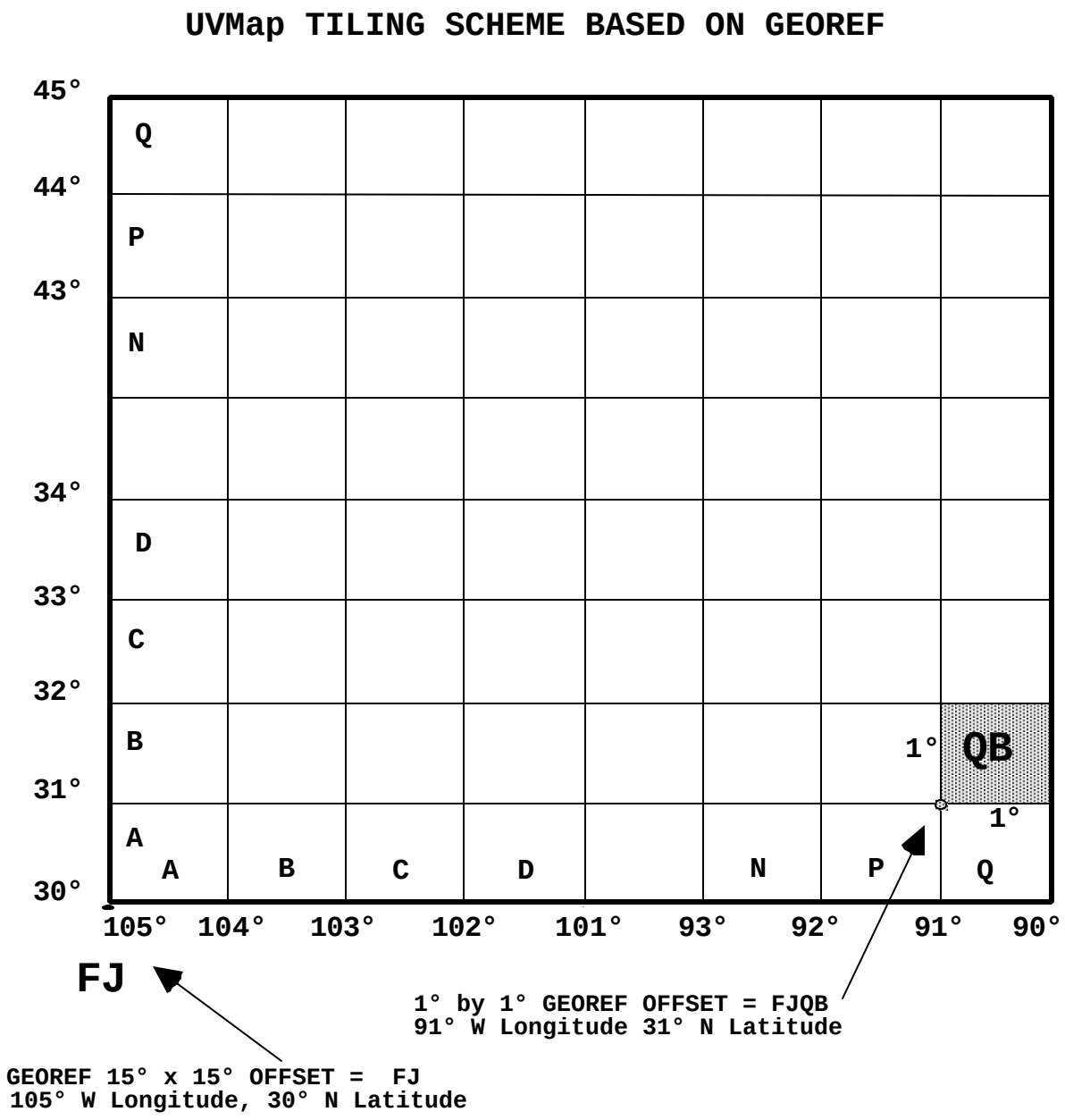
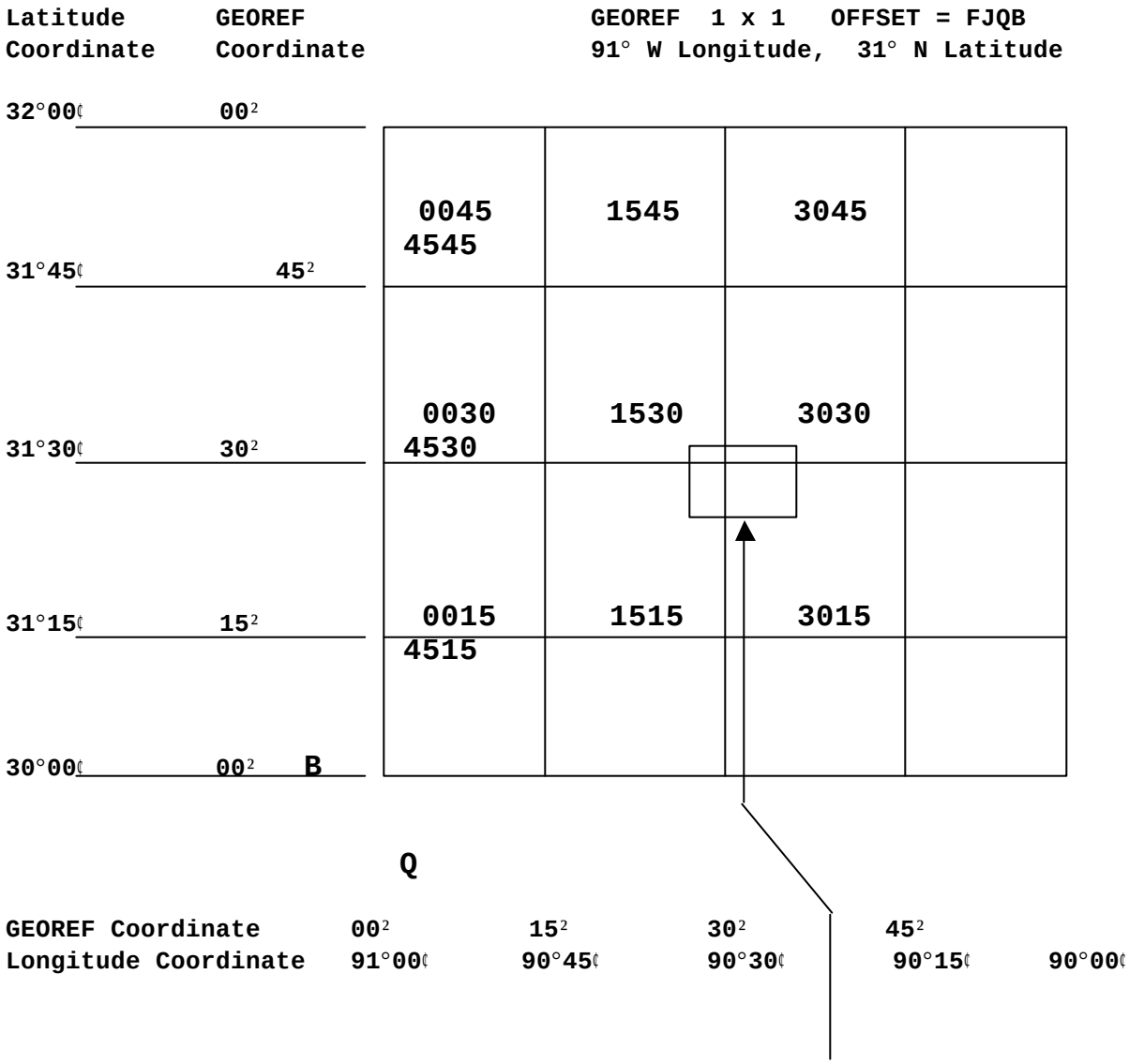


FIGURE 6. Coordinates for a 15° by 15° cell of GEOREF system (FJ).



Tile name corresponding to this sheet is fjqb2825.

FIGURE 7. Example of coordinates for GEOREF 1 degree by 1 degree cell (FJQB) for identifying UVMap tiles (FJQB2825).

3.16.2 Cross Tile Topology. Cross tile topology ensures that topology is retained between the primitive tables across the tile boundaries. Topology across the tiles is maintained through the use of a reference tile ID in the edge primitive table that enables the database to function as a seamless unit for analysis purposes.

3.17 Naming Conventions. Table 24 provides the naming conventions for the table extensions or table names for the following VPF tables: feature table extensions, primitive table extensions, spatial index files, variable – length index extensions.

TABLE 24. Naming conventions for UVMap Tables and Files.

Table or File Type	Area	Line	Point	Node	Text
Feature Table	aft	lft	pft	pft	tft
Join Table	ajt	ljt	-	-	-
Primitive Table	fac	edg	end	cnd	txt
Thematic Index	ati	lti	pti	nti	tti
Spatial Index	fsi	esi	nsi	csi	tsi
Variable-Length Index	afx	lfx	pfx	pfx	txx

NOTE: The extension .jti is for thematic indices on the join tables. The extension .fti is used for thematic indices on the fit.

4. QUALITY ASSURANCE.

4.1 Responsibility for inspection. Unless otherwise specified in the contract or purchase order, the contractor is responsible for the performance of all inspection requirements (examinations and tests) as specified herein. Except as otherwise specified in the contract or purchase order, contractors may use their own or any other facilities suitable for the performance of the inspection requirements specified herein, unless disapproved by the Government. The Government reserves the right to perform any of the inspections set forth in this specification where such inspections are deemed necessary to ensure that supplies and services conform to prescribed requirements.

4.1.1 Responsibility for compliance. All items shall meet all requirements of 3 and 5. The accuracy reviews set forth in this specification shall become a part of the contractors overall inspection system or quality program. The absence of any inspection requirements in the specification shall not relieve the contractor of responsibility for ensuring that all products or supplies submitted to the Government for acceptance comply with all requirements of the contract.

4.1.2 Final product quality. The final UVMap product quality will reflect the quality expressed by each applicable military standard.

5. PACKAGING.

5.1 Packaging. For acquisition purposes, the packaging requirements shall be as specified in the contract or order (see 6.2). When actual packaging of materiel is to be performed by DoD personnel, these personnel need to contact the responsible packaging activity to ascertain requisite packaging requirements. Packaging requirements are maintained by the Inventory Control Point’s packaging activity within the Military Department of

Defense Agency, or within the Military Department's System Command. Packaging data retrieval is available from the managing Military Department's or Defense Agency's automated packaging files, CD-ROM products, or by contacting the responsible packaging activity.

6. NOTES.

(This section contains information of a general or explanatory nature that may be helpful, but is not mandatory.)

6.1 Intended use.

6.1.1 General usage. The UVMap program is design to provide vector-based geospatial data with city graphic content. The product supports geographic information systems (GIS) and may be used in conjunction with various map background displays. The product is intended to be use to assist administrative, logistical, and tactical planning and operations for ground combat in urban areas, and for noncombatant evacuations.

6.2 Acquisition Requirements. Acquisition documents must specify the following:

a. Title, number, and date of the specification.

b. Issue of DoDISS to be cited in the solicitation, and if required, the specific issue of individual documents referenced (see 2.2.1, and 2.3)

c. Packaging requirements (see 5.1)

6.3 Supersession. This specification supersedes interim specification MIL-PRF-0089035(NIMA), 23 May 2000.

6.4 Definitions. See MIL-STD-2407 for definitions of terms used in this specification.

6.4.1 Acronyms.

ANSI	American National Standards Institute
ASCC	Air Standardization Coordinating Committee Agreements
CD-ROM	Compact Disc-Read Only Memory
CE	Circular Error
DMA	Defense Mapping Agency
DOD	Department of Defense
DoDISS	Department of Defense Index of Specifications and Standards
DOS	Disk Operating System
FACC	Feature Attribute Coding Catalogue
GEOREF	Geographic Reference System
GIS	Geographic Information System
IEEE	Institute of Electrical and Electronic Engineers
ISO	International Organization of Standards
LE	Linear Error
MC&G	Mapping, Charting and Geodesy

MSL	Mean Sea Level
NIMA	National Imagery and Mapping Agency
PC	Personal Computer
QA	Quality Assurance
QC	Quality Control
QSTAG	Quadripartite Standardization Agreement
STANAG	NATO International Standardization Agreement
VPF	Vector Product Format
WGS	World Geodetic System

6.5 Subject term (key word) listing.

Attribute
Coverage
FACC
GEOREF
Thematic layer
Vector
VPF

6.6 International Standardization Agreements. “Certain provisions of this specification are subject to international standardization agreement. When amendment, revision, or cancellation of this specification is proposed that will modify the international agreement concerned, the preparing activity will take appropriate action through international standardization channels, including departmental standardization offices, to change the agreement or make other appropriate accommodations.”

6.6.1 International Standardization Agreements (STANAG). STANAG 2211, “Geodetic Datums, Spheroids, Grids and Cell references”.

6.7 Changes from previous issue. The margins of this specification are marked with vertical lines to indicate where changes from the previous draft issue were made. This was done as a convenience only and the Government assume no liability whatsoever for any inaccuracies in these notations. Bidders and contractors are cautioned to evaluate the requirements of this document based on the entire content irrespective of the marginal notations and relationship to the last previous draft issue.

6.8 Classification and Special Handling of Thematic Files. The classification of the final UVMap files will be determined by the appropriate security section responsible for the final classification. When it is necessary to assign a security classification to the product, it will be in accordance with established national security procedures.

The CD-ROM discs containing UVMap data vary in classification depending on the geographic location covered by the data. The CD-ROM will carry the classification of the most restrictive classification of any tile or library contained within that particular compact disk.

Even though the final thematic files might be unclassified, a handling caveat could be required. Some NATO and other countries have mapping and other agreements which dictate the handling of materials produced over their

country. Security elements should check for caveat requirements at the beginning of each project.

6.8.1 Security Classification of Specification. This performance specification, MIL-PRF-89035A is UNCLASSIFIED.

6.9 NIMA Customer Help Desk. For questions concerning this or other NIMA products, services, or specifications, please telephone the NIMA Customer Help Desk at 1-800-455-0899, Commercial 314-260-1236, or DSN 490-1236.

URBAN VECTOR MAP (UVMap) DATA DICTIONARY ORGANIZATION

A.1 SCOPE

A.1.1 Scope. This appendix provides information on the data dictionary organization for the UVMap product. It is a mandatory part of the specification. The information contained herein is intended for compliance.

A.2 APPLICABLE DOCUMENTS

This section is not applicable to this appendix.

A.3 UVMAP DATA DICTIONARY ORGANIZATION

A.3.1 Data Dictionary Organization. The data provided in this appendix are organized according to VPF structure levels. Each UVMap database will have its own set of files and tables. For this specification, the order of files and tables in a sample UVMap database is provided alphabetically. The database-level tables appear first and are described in Appendix B. These tables are followed by UVMap data library-level tables in Appendix C which apply to all UVMap libraries. The UVMap coverage-level tables are presented in Appendix D and E. Appendix F contains a depiction of all tables and files at each level of the UVMap directory tree. Appendix G contains a listing of the FACC feature codes with descriptions and the feature types they represent for UVMap libraries, as well as a list of attribute codes with their associated features and feature types.

For this data dictionary, a brief description of each feature table is provided. All VPF tables consist of a header that is followed by the actual record contents. These appendices contain examples of the records that may be contained in actual tables. The data structure and contents for both the metadata tables and feature tables that may be present within a coverage are defined in these appendices. Tables not presented in the appendices appear in the main document section of this product specification. Specifically, the format of metadata tables (such as documentation tables) is defined in section 3.15.3, the format and structure of index files are defined in section 3.13.3, and the format and structure of primitive tables are defined in section 3.15.5.

A.3.2 Notes regarding table format:

a. The header portion of each table (top half of each illustration) defines the entries required for the VPF table header; the content portion (bottom half) of each table defines the record entries for the data fields.

b. A semicolon (;) is a separator for the four components of a header.

c. The colon (:) indicates the end of a column definition.

d. Carriage returns are embedded in the text for readability only. All header information shall be a continuous string of characters with no carriage returns.

e. For more information on the format of a VPF table, see section 3.13.

f. For tables with a large number of columns and only one record entry (i.e., dht, lht, grt), the backslash character (\) at the end of a line in the data records section is used to indicate that the record entry is continued for each column for that record; no carriage returns are implied. This format permits the data records for a large number of columns to be represented so that they may fit on a page of this appendix.

g. Spaces or tabs are not permitted in the header of any UVMap table.

UVMAP DATABASE-LEVEL TABLES AND CONTENTS

B.1 SCOPE

B.1.1 Scope. This appendix describes the structure and content of each VPF table in the UVMap database directory. It is a mandatory part of the specification. The information contained herein is intended for compliance.

B.2 APPLICABLE DOCUMENTS

This section is not applicable to this appendix.

B.3 UVMAP DATABASE-LEVEL VPF TABLES AND CONTENTS

B.3.1 Database-Level Metadata Tables. The UVMap database directory file name is the first file to appear on a CD-ROM followed by database-level metadata files as follows:

uvmap	database directory file
lat	library attribute table
dht	database header table
disclaim.doc	database disclaimer table

B.3.1.1 Library Attribute Table (lat). The lat contains the geographic extent (minimum bounding rectangle) of each library in the database.

TABLE B-1. Format and content for Library Attribute Table.

{Header length}L; Library Attribute Table;-; id=I,1,U,Row Identifier,-,-,-,: library_name=T,8,P,Library name,-,-,-,: xmin=F,1,N,Westernmost longitude,-,-,-,: ymin=F,1,N,Southernmost latitude,-,-,-,: xmax=F,1,N,Easternmost longitude,-,-,-,: ymax=F,1,N,Northernmost latitude,-,-,-,:;					
1	wash[1]	77.33	38.75	76.75	39.17
2	balt[1]	76.75	39.17	76.42	39.50
:	:	:	:	:	:
n	n	n	n	n	n

[1] The names and extent of the UVMap libraries in each database will vary with the urban area covered.

B.3.1.2 Database Header Table. The dht contains information that describes the database.

TABLE B-2. Format and content for Database Header Table (dht).

{Header length}L; Database Header Table;disclaim.doc; id=I,1,P,Row Identifier,-,-,-,: vpf_version=T,10,N,VPF version number,-,-,-,: database_name=T,8,N,Directory name of this database,-,-,-,: database_desc=T,100,N,Description of this database,-,-,-,: media_standard=T,20,N,Media Standard,-,-,-,: originator=T,50,N,Producer of this database,-,-,-,: addressee=T,100,N,Address of the producer,-,-,-,: media_volumes=T,4,N,Number of Volumes in this database,-,-,-,: seq_numbers=T,4,N,The Sequential Number(s) in this database,-,-,-,: num_data_sets=T,4,N,Number of Data Sets,-,-,-,: security_class=T,1,N,Security Classification,-,-,-,: downgrading=T,3,N,Downgrading,-,-,-,: downgrade_date=D,1,N,Date,-,-,-,: releasability=T,20,N,Releasability restrictions of data,-,-,-,: other_std_name=T,50,N,Description of other data standards used,-,-,-,: other_std_date=D,1,N,Date,-,-,-,: other_std_ver=T,10,N,Version number of other standard,-,-,-,: transmittal_id=T,1,N,Unique Transmittal Identifier,-,-,-,: edition_number=T,10,N,Edition Number of this database,-,-,-,: edition_date=D,1,N,Date of edition,-,-,-,:;
1\ 9606\ uvmap\ Urban Vector Map: a general purpose urban database designed to support GIS applications\ ISO 9660\ NATIONAL IMAGERY AND MAPPING AGENCY\ National Imagery and Mapping Agency, ATTN P, MS D-134, 4600 Sangamore Road, Bethesda, MD 20816-5003\ 1\ 1\ 1\ U\ NO\ 00000000000000.\ UNRESTRICTED\ N/A\ N/A\ N/A\ 1\ 1\ 19921021000000.

Note: The contents of these columns are presented as examples only: the actual content varies by library/database.

B.3.1.3 Database Disclaimer Table

Note:
The following disclaim.doc shall be present in every UVMap database. The disclaim.doc is intended for display each time the database is accessed. The format and sample content of this table is presented in TABLE B-3.

TABLE B-3. Format and sample content for Database Disclaimer Table (disclaim.doc).

{Header length}L; Database Disclaimer Table;-; id=I,1,P,Feature table primary key,-,-,-,: text=T,80,N,Text information,-,-,-,:	
1	Urban Vector Map (UVMap) is a very high resolution
2	digital database for use as a tailorable map
3	background/situation display, as a core database for
4	additional information layers and as the core product
5	in non-combatant evacuation order (NEO) Packets.
:	
n	...

UVMAP LIBRARY-LEVEL TABLES AND CONTENTS

C.1 SCOPE

C.1.1 Scope. This appendix describes the structure and content of each UVMap metadata table in a data library of the database. It is a mandatory part of the specification. The information contained herein is intended for compliance.

C.2 APPLICABLE DOCUMENTS

This section is not applicable to this appendix.

C.3 LIBRARY-LEVEL VPF TABLES AND CONTENTS

The structure and content of each VPF table in a UVMap library directory are provided in this section. All tables presented in this section apply to every library in a UVMap database. The actual record contents of the metadata tables will vary with each UVMap library. Those records that vary are indicated by a footnote mark.

C.3.1 UVMap Library Directories. Each library is represented as a directory file. Libraries are named for the urban area covered by the library.

C.3.2 Library-Level Metadata Tables. Each UVMap library shall contain the following metadata tables. The library-level metadata files appear on a CD-ROM as follows:

balt[1]	directory file
cat	coverage attribute table
lht	library header table
grt	geographic reference table
dqx	data quality index file
dqt	data quality table
lineage.doc	an optional documentation table

Note:

[1] Representative directory name for a UVMap library.

C.3.2.1 Coverage Attribute Table

Note: The following cat shall be present in every UVMap library. TABLE C-1 depicts the possible records that may be present in the cat. If a UVMap library does not contain any data for a particular coverage, then the record describing that coverage will be deleted.

TABLE C-1. Format and sample content for UVMap Coverage Attribute Table (cat).

{Header length}L; Coverage Attribute Table;-; id=I,1,U,Row Identifier,-,-,-,: coverage_name[1]= T,8,P,Coverage name,-,-,-,: description=T,17,N,Coverage description,-,-,-,: level[2]=I,1,N,Topology level,-,-,-,:;			
1	bnd	Boundaries	3
2	dq	Data Quality	3
3	elev	Elevation	3
4	hydro	Hydrography	3
5	ind	Industry	3
6	phys	Physiography	3
7	pop	Population	3
8	trans	Transportation	3
9	util	Utilities	3
10	veg	Vegetation	3
11	tileref	Tile Reference	3
12	libref	Library Reference	2

[1] This table depicts all possible UVMap coverages which may be present in a library; presence of these coverages will vary with data availability. If the library does not contain any data for a particular coverage, then the record describing that coverage will not be present.

[2] The number specified in the level column represents the topology level for the entire coverage regardless of the type of data present. For example, if area features are not present in a particular Vegetation coverage, level 3 topology will still be built for the coverage based on the value of "3" specified in the cat in the level column for the Vegetation coverage.

C.3.2.2 Library Header Table

Note: The following lht shall be present in every UVMap library. The format and sample content of the library header table for each library is presented in TABLE C-2. The record content of this table will vary for each UVMap library.

TABLE C-2. Format and sample content for example UVMap Library Header Table (lht).

```
{Header length}L;
Library Header Table;-;
id=I,1,P,Row Identifier,-,-,-,:
product_type=T,12,N,Product Type,-,-,-,:
library_name=T,12,N,Name,-,-,-,:
description=T,100,N,Description of the library,-,-,-,:
data_struct_code=T,1,N,Data Structure Code,-,-,-,:
scale=I,1,N,Scale of the library,-,-,-,:
source_series=T,15,N,Series,-,-,-,:
source_id=T,30,N,Identifier of the source reference,-,-,-,:
source_edition=T,20,N,Edition number of the source,-,-,-,:
source_name=T,100,N,Name of library source,-,-,-,:
source_date=D,1,N,Source Date,-,-,-,:
security_class=T,1,N,Security Classification,-,-,-,:
downgrading=T,3,N,Downgrading,-,-,-,:
downgrading_date=D,1,N,Date,-,-,-,:
releasability=T,20,N,Releasability,-,-,-,:;
```

```
1\
uvmap
balt\
This library contains digital data collected from 1:36,000-scale map
sheet or other sources of similar resolution.\
8\
36000\
K912\
Baltimore City\
3-DMATC\
City Graphic\
19760000000000.\
U\
NO\
00000000000000.\
UNRESTRICTED
```

Note: The contents of these columns are presented as examples only; the actual content varies by library.

C.3.2.3 Geographic Reference Table

Note: The following grt shall be present in every UVMap library. The record content of this table will vary for each UVMap library. The format and sample content of the library header table for each library is presented in TABLE C-3.

TABLE C-3. Format and sample content for a UVMap Geographic Reference Table (grt).

```
{Header length}L;
Geographic Reference Table;-;
id=I,1,P,Row Identifier,-,-,-,:
data_type=T,3,N,Data Type,-,-,-,:
units=T,3,N,Units,-,-,-,:
ellipsoid_name=T,15,N,Ellipsoid,-,-,-,:
ellipsoid_detail=T,50,N,Ellipsoid Details,-,-,-,:
vert_datum_name=T,15,N,Datum Vertical Reference,-,-,-,:
vert_datum_code=T,4,N,Vertical Datum Code,-,-,-,:
sound_datum_name=T,15,N,Sounding Datum,-,-,-,:
sound_datum_code=T,4,N,Sounding Datum Code,-,-,-,:
geo_datum_name=T,15,N,Datum Geodetic Name,-,-,-,:
geo_datum_code=T,4,N,Datum Geodetic Code,-,-,-,:
projection_name=T,20,N,Projection Name,-,-,-,:
projection_code=T,2,N,Code of the projection (blank if decimal degrees),-,-,-,:
parameter1=F,1,N,Projection parameter 1 (NaN if decimal degrees),-,-,-,:
parameter2=F,1,N,Projection parameter 2 (NaN if decimal degrees),-,-,-,:
parameter3=F,1,N,Projection parameter 3 (NaN if decimal degrees),-,-,-,:
parameter4=F,1,N,Projection parameter 4 (NaN if decimal degrees),-,-,-,:
false_origin_x=F,1,N,False Easting Origin Of Projection,-,-,-,:
false_origin_y=F,1,N,False Northing Origin Of Projection,-,-,-,:
false_origin_z=F,1,N,False Origin for Z Values,-,-,-,:;
```

```
 1\
GEO\
M\
WGS 84\
A=6378137 B=6356752 Meters\
MEAN SEA LEVEL\
015\
N/A\
N/A\
WGS 84\
WGE\
Dec. Deg. (unproj.)\
\
NaN\
NaN\
NaN\
NaN\
NaN\
NaN\
NaN
```

Note: The contents of these columns are presented as examples only; the actual content varies by library.

C.3.2.4 Data Quality Table

Note:
The following data quality table shall be present at the library-level for every UVMap library. The record content of this table may vary for each UVMap library. The format and sample content of the dqt for each library is presented in TABLE C-4.

TABLE C-4. Format and sample content for example Data Quality Table (dqt)

```
{Header length}L;
Library Data Quality Table;lineage.doc;
id=I,1,P,Row Identifier,-,-,-,:
vpf_level=T,8,N,VPF Level,-,-,-,:
vpf_level_name=T,8,N,Name of VPF Level,-,-,-,:
feature_complete=T,*,N,Feature Completeness Percent,-,-,-,:
attrib_complete=T,*,N,Attribute Completeness Percent,-,-,-,:
logical_consist=T,*,N,Logical Consistency,-,-,-,:
edition_num=T,8,N,Edition Number,-,-,-,:
creation_date=D,1,N,Creation Date,-,-,-,:
revision_date=D,1,N,Revision Date,-,-,-,:
spec_name=T,*,N,Product Specification Name,-,-,-,:
spec_date=D,1,N,Product Specification Date,-,-,-,:
earliest_source=D,1,N,Date of Earliest Source,-,-,-,:
latest_source=D,1,N,Date of Latest Source,-,-,-,:
quant_att_acc=T,*,N,Standard Deviation of Quantitative Attributes,-,-,-,:
qual_att_acc=T,*,N,Percent Reliability of Qualitative Attributes,-,-,-,:
collection_spec=T,*,N,Collection Specification Name,-,-,-,:
source_file_name=T,12,N,Included Source File Name,-,-,-,:
abs_horiz_acc=T,*,N,Absolute Horizontal Accuracy of VPF Level,-,-,-,:
abs_horiz_units=T,20,N,Unit of Measure for Absolute Horizontal Accuracy,-,-,-,:
abs_vert_acc=T,*,N,Absolute Vertical Accuracy of VPF Level,-,-,-,:
abs_vert_units=T,20,N,Unit of Measure for Absolute Vertical Accuracy,-,-,-,:
rel_horiz_acc=T,*,N,Point to Point Horizontal Accuracy of VPF Level,-,-,-,:
rel_horiz_units=T,20,N,Unit of Measure for Point to Point Horizontal Accuracy,-,-
,-,:
rel_vert_acc=T,*,N,Point to Point Vertical Accuracy of VPF Level,-,-,-,:
rel_vert_units=T,20,N,Unit of Measure for Point to Point Vertical Accuracy,-,-,-
,:
comments=T,*,N,Miscellaneous Comments,-,-,-,:;
```

TABLE C-4. Format and content for example Data Quality Table (dqt)continued.

1\ LIBRARY\ balt\ All features in this library are captured from the source materials using the rules for feature extraction and inclusion conditions in accordance with this specification.\ All features in this library have valid attribute codes assigned to them in accordance with this specification.\ All data are topologically correct. No duplicate features are present within a coverage. All areas are completely described as extracted from the source materials. No undershoots or overshoots are present. All data were consistently captured using the rules described in the documentation table associated with this table and in the various feature table narrative files present at the coverage level within the library.\ 1\ 19930311000000.\ 00000000000000.\ URBAN VECTOR MAP Product Specification\ 19930214000000.\ 00000000000000.\ 00000000000000.\ 100 percent of attribute codes shall be reviewed against this specification. No formal effort was undertaken to develop a quantitative accuracy statement.\ 100 percent of attribute codes shall be reviewed against this specification. No formal effort was undertaken to develop a qualitative accuracy statement.\ MIL-C-89303 - Military Specification for City Graphics, 30 November 1990\ NA\ +/- 200 meters: This figure represents the overall absolute horizontal accuracy in this library in accordance with this specification.\ Meters\ +/- 50 meters: This figure represents the overall vertical accuracy in this library in accordance with this specification.\ Meters\ Unknown N/A\ Unknown\ N/A\ Additional descriptions of data lineage are available in the documentation table associated with this data quality table (called lineage.doc).

Note: The contents of these columns are presented as examples only; the actual content varies by library.

C.3.2.5 Lineage Narrative Table.

Format and sample content for Lineage Documentation Table is shown in table C-5.

TABLE C-5 Format and sample content for Lineage Documentation Table (lineage.doc).

{Header length}L; Lineage Documentation Table;-; id=I,1,P,Feature table primary key,-,-,-,: text=T,80,N,Text information,-,-,-,:;	
1 2 3 4 5 : n	This table describes characteristics of the feature data within this coverage. Three subjects are discussed: 1) special automation techniques, 2) feature coincidence, and 3) database design issues. The table does not contain a full description of the data production process. ...

UVMAP DATA LIBRARY REFERENCE COVERAGES

D.1 SCOPE

D.1.1 Scope. This appendix describes the structure and content of each UVMap reference coverage table in a data library of the database. It is a mandatory part of the specification. The information contained herein is intended for compliance.

D.2 APPLICABLE DOCUMENTS

This section is not applicable to this appendix.

D.3 UVMAP REFERENCE COVERAGES

D.3.3 Data Library Reference Coverages and Tables The following coverages, including directory files and tables, apply to all tiled data libraries. Tile reference and library reference coverages will be untiled within their associated library. The tile reference coverage will not be present in an untiled UVMap data library.

D.3.3.1 Tile Reference Coverage Directory and Files The tile reference coverage directory contains the following files:

tileref	directory file
fcs	feature class schema table
tileref.aft	tile reference area feature table
tilereft.tft	tile reference text feature table (optional)
fsi	face spatial index table
fbr	face bounding rectangle
fac	face primitive table
rng	ring table
esi	edge spatial index table
ebr	edge bounding rectangle table
edx	edge variable length index file
edg	edge primitive table
csi	connected node spatial index file
cnd	connected node primitive table
tsi	text spatial index file
txx	text variable length index file
txt	text primitive table

D.3.3.1.1 Tile Reference Feature Class Schema Table. A Feature Class Schema Table (fcs) shall be present in every tile reference coverage. The format and content of the fcs is presented in TABLE D-1. The record content of this table may vary for each Tile Reference Coverage depending upon the presence or absence of a text feature class.

TABLE D-1. Content and sample format for Tile Reference Feature Class Schema Table (fcs).

Thematic Layer: Tileref
Coverage Name: **tileref**
Table Description: Feature Class Schema Table
Table Name: **fcs**

```
{Header length}L;
Tile Reference Feature Class Schema Table;-;
id=I,1,P,Row Identifier,-,-,-,:
feature_class=T,8,N,Name of Feature Class,-,-,-,:
table1=T,12,N,First Table,-,-,-,:
table1_key=T,16,N,Column Name in First Table,-,-,-,:
table2=T,12,N,Second Table,-,-,-,:
table2_key=T,6,N,Column Name in Second Table,-,-,-,:;
```

1	tileref	tileref.aft	fac_id	fac	id
2	tileref	fac	tileref.aft_id	tileref.aft	id
3	tilereft	tilereft.tft	txt_id	txt	id
4	tilereft	txt	id	tilereft.tft	txt_id

D.3.3.1.2 Tile Reference Feature Tables The feature tables implemented in the Tile Reference Coverage are specified in TABLES D-2 and D-3.

TABLE D-2. Format and sample content for Tile Reference Area Feature Table (tileref.aft).

Thematic Layer: Tileref
Coverage Name: **tileref**
Table Description: Tile Reference Area Feature Table
Table Name: **tileref.aft**

```
{Header length}L;
Tile Reference Area Feature Table;-;
id=I,1,P,Row ID,-,-,-,:
tile_name=T,8,N,UVMap Tile Name,-,-,-,:
fac_id=I,1,N,Face Primitive Foreign Key,-,-,-,:;
```

1	dggj0000	2
2	dggj0100	3
3	dggj0003	4
4	dggj0101	5
:	:	:
n	dggj0002	n

TABLE D-3. Format and content for Tile Reference Text Feature Table (tilereft.tft).

Thematic Layer: Tileref
Coverage Name: **tileref**
Table Description: Tile Reference Text Feature Table
Table Name: **tilereft.tft**

{Header length}L; Tile Reference Text Feature Table;-; id=I,1,P,Row ID,-,-,-,: tile_name=T,8,N,UVMap Tile Name,-,-,-,: txt_id=I,1,N,Text Primitive Foreign Key,-,-,-,:;		
1	dggj0000	1
2	dggj0100	2
3	dggj0003	3
4	dggj0101	4
:	:	:
n	dggj0002	n

D.3.3.1.3 Tile Reference Primitive Tables. The format of the primitive tables in the Tile Reference Coverage directory are defined in section 3.15.5. Although the text feature table is optional, a sample text primitive table is presented to show sample values for the string column. The structure and format of the variable-length index files and spatial index files is provided in section 3.13.3 The structure and format of the bounding rectangle tables is described in section 3.15.5.

TABLE D-4. Format and example of content for Tile Reference Text Primitive Table (txt).

Thematic Layer: Tileref
Coverage Name: **tileref**
Table Description: Text Primitive Table
Table Name: **txt**

{Header length}L; Text Primitive Table;-; id=I,1,P,Row Identifier,-,-,-,: string=T,*,N,Text String,-,-,-,: shape_line=C,*,N,Shape of Text String,-,-,-,:;		
1	dggj0000	-5.811609,43.662006
2	dggj0100	-8.574136,43.435287
3	dggj0003	-7.437326,42.881957
4	dggj0101	-6.835582,40.736553 -6.825007,40.846355
:	:	:
n	dggj0002	n

D.3.3.2 Library Reference Coverage Directory and Files The Library Reference Coverage Directory contains the following files:

libref	directory file
fcs	feature class schema table
libref.lft	library reference line feature table
libreft.tft	library reference text feature table (optional)
esi	edge spatial index table
ebr	edge bounding rectangle table
edx	edge variable length index file
edg	edge primitive table
csi	connected node spatial index file
cnd	connected node primitive table
tsi	text spatial index file
txx	text variable length index file
txt	text primitive table
char.vdt	character value description table

D.3.3.2.1 Library Reference Feature Class Schema Table A Feature Class Schema Table shall be present in every UVMap Library Reference Coverage. The format and content of the fcs is presented in TABLE D-5. The record content of this table may vary for each UVMap Library Reference Coverage, depending upon the presence or absence of a text feature class.

TABLE D-5. Content and sample format for Library Reference Feature Class Schema Table (fcs).

Thematic Layer: Libref
Coverage Name: **libref**
Table Description: Library Reference Feature Class Schema Table
Table Name: **fcs**

```
{Header length}L;
Library Reference Feature Class Schema Table;-;
id=I,1,P,Row Identifier,-,-,-,:
feature_class=T,8,N,Name of Feature Class,-,-,-,:
table1=T,12,N,First Table,-,-,-,:
table1_key=T,16,N,Column Name in First Table,-,-,-,:
table2=T,12,N,Second Table,-,-,-,:
table2_key=T,6,N,Column Name in Second Table,-,-,-,:;
```

1	libref	libref.lft	edg_id	edg	id
2	libref	edg	libref.lft_id	libref.lft	id
3	libreft	libreft.tft	txt_id	txt	id
4	libreft	txt	id	libreft.tft	txt_id

D.3.3.2.2 Library Reference Feature tables The feature tables implemented in the library reference coverage are specified in TABLES D-6 and D-7.

TABLE D-6. Format and content for Libref Line Feature Table (libref.lft).

Thematic Layer: Libref
Coverage Name: **libref**
Table Description: Library Reference Line Feature Table
Table Name: **libref.lft**

{Header length}L; Library Reference Line Feature Table;-; id=I,1,P,Row ID,-,-,-,: f_code=T,5,N,FACC Feature Code,char.vdt,-,-,: edg_id=I,1,N,Edge Primitive Foreign Key,-,-,-,:;		
1	AP030	1
2	BA010	2
3	FA000	3
4	:	4
n	n	n

TABLE D-7. Format and content for Libref Text Feature Table (libreft.tft).

Thematic Layer: Libref
Coverage Name: **libref**
Table Description: Library Reference Text Feature Table
Table Name: **libreft.tft**

{Header length}L; Library Reference Text Feature Table;-; id=I,1,P,Row ID,-,-,-,: f_code=T,5,N,FACC Feature Code,char.vdt,-,-,: txt_id=I,1,N,Text Primitive Foreign Key,-,-,-,:;		
1	ZD040	1
2	ZD040	2
3	ZD045	3
4	ZD045	4
:	:	:
n	n	n

D.3.3.2.3 Library Reference Primitive tables. The format of the primitive tables in the Library Reference Coverage directory are defined in section 3.15.5. Although the Text Feature Table is optional, a sample Text Primitive Table is presented to show sample values for the **string** column. The text string depicting the library name will be appropriately placed near the top center of each Library Reference Coverage in an appropriately sized font.

The structure and format of the variable-length index files and spatial index files is provided in section 3.13.3. The structure and format of the bounding rectangle tables is described in section 3.15.5.

TABLE D-8. Format and example of content for Libref Text Primitive Table (txt).

Thematic Layer: Libref
Coverage Name: **libref**
Table Description: Text Primitive Table
Table Name: **txt**

{Header length}L; Text Primitive Table;-; id=I,1,P,Row Identifier,-,-,-,: string=T,*,N,Text String,-,-,-,: shape_line=C,*,N,Shape of Text String,-,-,-,:;		
1 : n	Text string[1] : n	-5.811609,43.662006 : n

[1] The names and extent of the UVMap libraries, or other geographic identifiers.

TABLE D-9. Library Reference Character Value Description Table.

Thematic Layer: Libref
Coverage Name: **libref**
Table Description: Library Reference Character Value Description Table
Table Name: **char.vdt**

{Header length}L; Library Reference Character Value Description Table;-; id=I,1,P,Row Identifier,-,-,-,: table=T,12,N,Name of the Feature Table,-,-,-,: attribute=T,6,N,Column Name,-,-,-,: value=T,5,N,Unique Value of Attribute,-,-,-,: description=T,24,N,Description of Value,-,-,-,:;				
1	libref.lft	f_code	AP030	Road
2	libref.lft	f_code	BA010	Coastline/Shoreline
3	libref.lft	f_code	FA000	Administrative Boundary
4	libreft.tft	f_code	ZD040	Named Location
5	libreft.tft	f_code	ZD045	Text Description

UVMAP DATA LIBRARY THEMATIC DATA COVERAGES

E.1 SCOPE

E.1.1 Scope. This appendix describes the structure and content of each UVMap thematic data coverage table in a data library of the database. It is a mandatory part of the specification. The information contained herein is intended for compliance.

E.2 APPLICABLE DOCUMENTS

This section is not applicable to this appendix.

E.3 UVMAP THEMATIC COVERAGE DIRECTORY RECORD LAYOUT.

E.3.1 Coverage Table and File Order For each coverage, the Feature Class Schema Table is described first, followed by the Feature Tables, then Value Description Tables. The type and content of documentation tables will vary with each coverage. The Feature Class Schema (fcs) Table given for each coverage contains entries for each possible feature class in the coverage. Only those feature classes actually present in the coverage shall have entries in the FCS. For each feature table the attribute names, description, and attribute values are also represented. In addition, the tile_id and end_id or cnd_id columns are included in Point Feature Tables and Node Feature Tables. A summary of the thematic layers, coverages, and feature classes is presented in TABLE E-2.

The format and content for thematic indices, spatial indices and variable-length indices are defined in Section 3.13.3.

Data Quality Feature Tables can be present in any coverage when appropriate. Symbol Related Attribute Tables are present in any coverage with a Text Feature Table. These tables may appear in multiple libraries; to avoid redundancy, they are discussed only once, starting in section E.3.1.1.

TABLE E-1. UVMap Coverages.

Boundaries Coverage
Data Quality Coverage
Elevation Coverage
Hydrography Coverage
Industry Coverage
Physiography Coverage
Population Coverage
Transportation Coverage
Utilities Coverage
Vegetation Coverage

TABLE E-2. UVMap Feature Tables.

Coverage name	Feature Classes				
	Point	**Node**	**Line**	**Area**	**Text**
bnd	markersp.pft		barrierl.lft coastl.lft polbndl.lft	polbnda.aft	bndtxt.tft
dq			dqline.lft	dqarea.aft	dqtxt.tft
elev	elevp.pft		contourl.lft		elevtxt.tft
hydro	arrowp.pft miscp.pft wellsprp.pft		aquedctl.lft daml.lft inshorel.lft miscl.lft seastrtl.lft watrcrsl.lft	coasta.aft dama.aft inunda.aft lakeresa.aft locka.aft misca.aft seastrta.aft watrcrsa.aft	hydrotxt.tft
ind	bldindp.pft cisternp.pft extractp.pft obstrp.pft rigwellp.pft storagep.pft		bldindl.lft extractl.lft indl.lft	bldinda.aft cmpxinda.aft disposea.aft extracta.aft powrinda.aft processa.aft storagea.aft	indtxt.tft
phys	cavep.pft		bluffl.lft embankl.lft faultl.lft	embanka.aft grounda.aft lndfrma.aft	phystxt.tft
pop	bldpopp.pft landmrkp.pft milp.pft mispopp.pft ruinsp.pft		bldpopl.lft landmrkl.lft mill.lft	bldpopa.aft builtupa.aft cmpxpopa.aft landmrka.aft mila.aft mispopa.aft mobilea.aft plaza.aft ruinsa.aft	poptxt.tft
trans	misaerop.pft lthsp.pft	bridgec.pft ferryc.pft fordc.pft stationc.pft tunenexc.pft	aerofacl.lft bridgel.lft ferryl.lft fordl.lft pierl.lft railrdl.lft rampl.lft roadl.lft trackl.lft traill.lft traml.lft	aerofaca.aft bridgea.aft harbora.aft prkraila.aft roada.aft stationa.aft	transtxt.tft
util	commp.pft pumpingp.pft	translnc.pft	pipel.lft powerl.lft telel.lft	comma.aft powrutla.aft pumpinga.aft substata.aft	utiltxt.tft

TABLE E-2. UVMap Feature Tables (Continued).

veg			firebrkl.lft hedgel.lft	cropa.aft grassa.aft orcharda.aft swampa.aft treesa.aft	vegtxt.tft

Note: Additional data quality point, node, line, area, and text feature tables may be implemented for all coverages (except **dq**) where desired.

E.3.1.1 UVMap Data Quality Feature Classes in Thematic Data Coverages. Each UVMap coverage may contain Data Quality information for individual point, node, line, or area features. Data Quality feature classes have been defined for each coverage to describe Data Quality information for any or all of the point, node, line, and area features in a coverage (TABLES E-3 to E-6). Data Quality feature tables presented in this section may be implemented if needed in any UVMap data coverage.

Two other Data Quality tables may be defined: Data Quality Text Feature Tables (TABLE E-7), which contain information about text features, and Data Quality Description Related Attribute Tables (TABLE E-8), which contain descriptions for particular features.

Using Data Quality tables within a coverage is a way to store information about specific features or feature classes within that coverage. A Data Quality coverage may also be implemented at the library level. Its use is described in section E.3.3.

TABLE E-3. Data Quality Point Feature Table.

Thematic Layer: <applicable layer>
Coverage Name: <any coverage> (e.g., **bnd** or **elev**)
Table Description: Data Quality Point Feature Table
Table Name: **dqpoint.pft**
dq Layer Number: Use Applicable Layer Number

```
{Header length}L;
Data Quality Point Feature Table;-;
id=I,1,P,Row Identifier,-,-,-,:
dqdescr_id=S,1,N,DQ Description Related Row ID,-,-,-,:
feature_class=T,8,N,UVMap Point Feature Class,-,-,-,:
f_code=T,5,N,FACC Feature Code,char.vdt,dqf_code.pti,-,:
tile_id=S,1,N,Tile Reference ID,-,dqtil_id.pti,-,:
end_id=I,1,N,Entity Node Primitive ID,-,dqend_id.pti,-,:;
```

Column	Description	Value	Value Meaning
id	Row Identifier	Sequential beginning with 1	
dqdescr_id	Data Quality Description Related Row Identifier		This is the relate key to the **dqdescr.rat**
feature_class	UVMap Point Feature Class		Pertinent point feature class name in the coverage to which the data quality information applies
f_code	FACC Feature Code	any	Capture the **f_code** for the point feature to which the **dq** statement applies
		ZD045	Text Description. For **dq** pertaining to a point feature with no other applicable **f_code**

The purpose of this coverage is to store Data Quality information regarding individual point features.

TABLE E-4. Data Quality Node Feature Table.

Thematic Layer: <applicable layer>
Coverage Name: <any coverage> (e.g., **hydro** or **trans**)
Table Description: Data Quality Node Feature Table
Table Name: **dqnode.pft**
dq Layer Number: Use Applicable Layer Number

```
{Header length}L;
Data Quality Node Feature Table;-;
id=I,1,P,Row Identifier,-,-,-,:
dqdescr_id=S,1,N,DQ Description Related Row ID,-,-,-,:
feature_class=T,8,N,UVMap Node Feature Class,-,-,-,:
f_code=T,5,N,FACC Feature Code,char.vdt,dqf_code.nti,-,:
tile_id=S,1,N,Tile Reference ID,-,dqtil_id.nti,-,:
cnd_id=I,1,N,Connected Node Primitive ID,-,dqcnd_id.nti,-,:;
```

Column	Description	Value	Value Meaning
id	Row Identifier	Sequential beginning with 1	
dqdescr_id	Data Quality Description Related Row Identifier		This is the relate key to the **dqdescr.rat**
feature_class	UVMap Node Feature Class		Pertinent node feature class name in the coverage to which the Data Quality information applies
f_code	FACC Feature Code	any	Capture the **f_code** for the node feature to which the **dq** statement applies
		ZD045	Text Description. For dq pertaining to a Node feature with no other applicable **f_code**

The purpose of this coverage is to store data quality information regarding point features represented as connected nodes.

TABLE E-5. Data Quality Line Feature Table.

Thematic Layer: <applicable layer>
Coverage Name: <any coverage> (e.g., **bnd** or **elev**)
Table Description: Data Quality Line Feature Table
Table Name: **dqline.lft**
dq Layer Number: Use Applicable Layer Number

```
{Header length}L;
Data Quality Line Feature Table;-;
id=I,1,P,Row Identifier,-,-,-,:
dqdescr_id=S,1,N,DQ Description Related Row ID,-,-,-,:
feature_class=T,8,N,UVMap Line Feature Class,-,-,-,:
f_code=T,5,N,FACC Feature Code,char.vdt,dqf_code.lti,-,:;
```

Column	Description	Value	Value Meaning
id	Row Identifier	Sequential beginning with 1	
dqdescr_id	Data Quality Description Related Row Identifier		This is the relate key to the **dqdescr.rat**
feature_class	UVMap Line Feature Class		Pertinent line feature class name in the coverage to which the data quality information applies
f_code	FACC Feature Code		
		any	Capture the **f_code** for the line feature to which the **dq** statement applies
		ZD045	Text Description. For DQ pertaining to a line feature with no other applicable **f_code**

The purpose of this coverage is to store data quality information regarding individual line features.

TABLE E-6. Data Quality Area Feature Table.

Thematic Layer: <applicable layer>
Coverage Name: <any coverage> (e.g., **bnd** or **elev**)
Table Description: Data Quality Area Feature Table
Table Name: **dqarea.aft**
dq Layer Number: Use Applicable Layer Number

```
{Header length}L;
Data Quality Area Feature Table;-;
id=I,1,P,Row Identifier,-,-,-,:
dqdescr_id=S,1,N,DQ Description Related Row ID,-,-,-,:
feature_class=T,8,N,UVMap Area Feature Class,-,-,-,:
f_code=T,5,N,FACC Feature Code,char.vdt,dqf_code.ati,-,:;
```

Column	Description	Value	Value Meaning
id	Row Identifier	Sequential beginning with 1	
dqdescr_id	Data Quality Description Related Row Identifier		This is the relate key to the **dqdescr.rat**
feature_class	UVMap Area Feature Class		Pertinent area feature class name in the coverage to which the data quality information applies
f_code	FACC Feature Code		
		any	Capture the **f_code** for the area feature to which the **dq** statement applies.
		ZD045	Text Description. For **dq** pertaining to an area feature with no other applicable **f_code**

The purpose of this coverage is to store data quality information regarding individual area features.

TABLE E-7. Data Quality Text Feature Table.

Thematic Layer:	<applicable layer>
Coverage Name:	<any coverage> (e.g., **bnd** or **elev**)
Table Description:	Data Quality Text Feature Table
Table Name:	**dqtext.tft**
dq Layer Number:	Use Applicable Layer Number

```
{Header length}L;
Data Quality Text Feature Table;-;
id=I,1,P,Row Identifier,-,-,-,:
tile_id=S,1,N,Tile Reference ID,-,dqtil_id.tti,-,:
txt_id=I,1,N,Text Primitive ID,-,dqtxt_id.tti,-,:;
```

Column	Description	Value	Value Meaning
id	Row Identifier	Sequential beginning with 1	

This is all that is required.

TABLE E-8. Data Quality Description Related Attribute Table.

Thematic Layer: <applicable layer>
Coverage Name: <any coverage> (e.g., **bnd** or **elev**)
Table Description: Data Quality Description Related Attribute Table
Table Name: **dqdescr.rat**
dq Layer Number: Not Applicable

```
{Header length}L;
Data Quality Description Related Attribute Table;-;
id=I,1,P,Row Identifier,-,-,-,:
dqdescr=T,*,N,DQ Description for Feature,-,-,-:;
```

Column	Description	Value	Value Meaning
id	Row Identifier		Sequential beginning with 1
dqdescr	Data Quality Description for Feature		This item contains a text string describing specific conditions occurring within the database for a particular feature. This may refer to any type of identified data quality information present that is appropriate to describe at the feature level. Sample records might include: Approximate alignment Generalized route Existence doubtful

E.3.1.2 Symbology The symbology for the geometric features in the UVMap database is defined in the application software. Diacritical marks and non-Roman characters for text are not incorporated in the design. The text display text feature table in each coverage has an associated Symbol Related Attribute Table (**symbol.rat**), which provides information on how to symbolize text for representation on a plot or lithograph. Other application software packages may be written to access the Symbology Related Attribute Table.

E.3.1.3 Symbology Related Attribute Table The Symbol Related Attribute Table (**symbol.rat**) will be present whenever a Text Feature Table is present in a coverage. To avoid duplication in this appendix, the **symbol.rat** is presented only once, but it may be present in multiple coverages. The **symbol.rat** defines the fonts, font sizes, text style, and color for each text record specified in a Text Feature Table. There is a many-to-one correspondence between the records of the text feature table and the **symbol.rat**.

TABLE E-9. Symbol Related Attribute Table.

Thematic Layer: <applicable layer>
Coverage Name: <any coverage> (e.g., **bnd** or **elev**)
Table Description: Symbol Related Attribute Table
Table Name: **symbol.rat**
dq Layer Number: Not Applicable

```
{Header length}L;
Symbol Related Attribute Table;-;
id=I,1,P,Row Identifier,-,-,-,:
symbol_id=S,1,N,Symbol Identification,-,-,-,:
fon=S,1,N,Type of Font,int.vdt,-,-,:
sty=S,1,N,Style of Text,int.vdt,-,-,:
size=S,1,N,Font Size in Points,-,-,-,:
col=S,1,N,Color of Text,int.vdt,-,-,:;
```

Column	**Description**	**Value**	**Value Meaning**
id	Row Identifier	Sequential beginning with 1	
symbol_id	Symbol Identification		
		1	1,1,12,1
		2	1,1,8,1
		3	1,1,16,1
		5	1,1,7,1
		6	1,1,8,9
		7	1,1,5,1
		8	1,1,6,1
		9	1,1,6,9
		10	1,1,5,4
		12	1,1,7,4
		13	1,1,8,4
		16	1,1,6,4
		18	1,1,12,4
		21	1,1,10,1
		25	1,1,14,1
		29	1,1,4,1
		31	1,1,9,1
		34	1,1,9,4
		35	1,1,10,4
		36	1,1,7,12
fon	Type of Font	1	Machine Default
sty	Style of Text	1	Kern
		2	Proportional
		3	Constant

TABLE E-9. Symbol Related Attribute Table (Continued).

size	Font Size in Points		
		4	
		5	
		6	
		7	
		8	
		9	
		10	
		12	
		14	
		16	
col	Color of Text	1	Black
		4	Blue
		9	Red-Brown
		12	Magenta

E.3.2 Boundaries Coverage.

TABLE E-10. Content and format for Boundaries Coverage Feature Class Schema Table.

Thematic Layer: Boundaries
Coverage Name: **bnd**
Table Description: Boundaries Feature Class Schema Table
Table Name: **fcs**
dq Layer Number: 1

```
{Header length}L;
Boundaries Feature Class Schema Table;-;
id=I,1,P,Row Identifier,-,-,-,:
feature_class=T,8,N,Name of Feature Class,-,-,-,:
table1=T,12,N,First Table,-,-,-,:
table1_key=T,16,N,Column Name in First Table,-,-,-,:
table2=T,12,N,Second Table,-,-,-,:
table2_key=T,16,N,Column Name in Second Table,-,-,-,:;
```

1	markersp	markersp.pft	end_id	end	id
2	markersp	end	id	markersp.pft	end_id
3	barrierl	barrierl.lft	id	barrierl.ljt	barrierl.lft_id
4	barrierl	barrierl.ljt	edg_id	edg	id
5	barrierl	edg	id	barrierl.ljt	edg_id
6	barrierl	barrierl.ljt	barrierl.lft_id	barrierl.lft	id
7	coastl	coastl.lft	id	coastl.ljt	coastl.lft_id
8	coastl	coastl.ljt	edg_id	edg	id
9	coastl	edg	id	coastl.ljt	edg_id
10	coastl	coastl.ljt	coastl.lft_id	coastl.lft	id
11	polbndl	polbndl.lft	id	polbndl.ljt	polbndl.lft_id
12	polbndl	polbndl.ljt	edg_id	edg	id
13	polbndl	edg	id	polbndl.ljt	edg_id
14	polbndl	polbndl.ljt	polbndl.lft_id	polbndl.lft	id
15	polbnda	polbnda.aft	id	polbnda.ajt	polbnda.aft_id
16	polbnda	polbnda.ajt	fac_id	fac	id
17	polbnda	fac	id	polbnda.ajt	fac_id
18	polbnda	polbnda.ajt	polbnda.aft_id	polbnda.aft	id
19	dqpoint	dqpoint.pft	end_id	end	id
20	dqpoint	end	id	dqpoint.pft	end_id
21	dqpoint	dqpoint.pft	dqdescr_id	dqdescr.rat	id
22	dqline	dqline.lft	id	dqline.ljt	dqline.lft_id
23	dqline	dqline.ljt	edg_id	edg	id
24	dqline	edg	id	dqline.ljt	edg_id
25	dqline	dqline.ljt	dqline.lft_id	dqline.lft	id
26	dqline	dqline.lft	dqdescr_id	dqdescr.rat	id
27	dqarea	dqarea.aft	id	dqarea.ajt	dqarea.aft_id
28	dqarea	dqarea.ajt	fac_id	fac	id
29	dqarea	fac	id	dqarea.ajt	fac_id
30	dqarea	dqarea.ajt	dqarea.aft_id	dqarea.aft	id
31	dqarea	dqarea.aft	dqdescr_id	dqdescr.rat	id

TABLE E-10. Content and format for Boundaries Coverage Feature Class Schema Table (Continued).

32	dqtext	dqtext.tft	txt_id	txt	id
33	dqtext	txt	id	dqtext.tft	txt_id
34	bndtxt	bndtxt.tft	txt_id	txt	id
35	bndtxt	txt	id	bndtxt.tft	txt_id
36	bndtxt	bndtxt.tft	symbol_id	symbol.rat	symbol_id

TABLE E-11. Markers Point Feature Table.

Thematic Layer: Boundaries
Coverage Name: **bnd**
Table Description: Markers Point Feature Table
Table Name: **markersp.pft**
dq Layer Number: 1

```
{Header length}L;
Markers Point Feature Table;-;
id=I,1,P,Row Identifier,-,-,-,:
f_code=T,5,N,FACC Feature Code,char.vdt,f_code1.pti,-,:
cpa=S,1,N,Control Point Attribute,int.vdt,-,-,:
zv2=S,1,N,Highest Z value (meters),int.vdt,-,-,:
tile_id=S,1,N,Tile Reference ID,-,tile1_id.pti,-,:
end_id=I,1,N,Entity Node Primitive ID,-,end1_id.pti,-,:;
```

Column	Description	Value	Value Meaning	Applicable f_code for Each Attribute Value
id	Row Identifier	Sequential beginning with 1		
f_code	FACC Feature Code			
		ZB020	Benchmark	
		ZB035	Control Point/Control Station	
cpa	Control Point Attribute			
		0	Unknown	ZB035, ZB020
		1	Bench Mark	ZB035, ZB020
		5	Vertical	ZB035, ZB020
zv2	Highest Z value (meters)			
		9999	Unknown	ZB035, ZB020
		-400 to 9998		ZB035, ZB020

TABLE E-12. Barrier Line Feature Table.

Thematic Layer: Boundaries
Coverage Name: **bnd**
Table Description: Barrier Line Feature Table
Table Name: **barrierl.lft**
dq Layer Number: 1

```
{Header length}L;
Barrier Line Feature Table;-;
id=I,1,P,Row Identifier,-,-,-,:
f_code=T,5,N,FACC Feature Code,char.vdt,f_code1.lti,-,:
pht=S,1,N,Predominant Height (meters),int.vdt,-,-,:;
```

Column	Description	Value	Value Meaning	Applicable f_code for Each Attribute Value
id	Row Identifier	Sequential beginning with 1		
f_code	FACC Feature Code			
		AL070	Fence	
		AL260	Wall	
pht	Predominant Height (meters)			
		0	Unknown	AL070, AL260
		>0	Actual Value	AL070, AL260

TABLE E-13. Coastline Line Feature Table.

Thematic Layer: Boundaries
Coverage Name: **bnd**
Table Description: Coastline Line Feature Table
Table Name: **coastl.lft**
dq Layer Number: 1

```
{Header length}L;
Coastline Line Feature Table;-;
id=I,1,P,Row Identifier,-,-,-,:
f_code=T,5,N,FACC Feature Code,char.vdt,-,-,:
exs=S,1,N,Existence Category,int.vdt,-,-,:
slt=S,1,N,Shoreline Type Category,int.vdt,-,-,:
vdc=S,1,N,Vertical Datum Category,int.vdt,-,-,:;
```

Column	Description	Value	Value Meaning	Applicable f_code for Each Attribute Value
id	Row Identifier	Sequential beginning with 1		
f_code	FACC Feature Code			
		BA010	Coastline/Shoreline	
exs	Existence Category			
		0	Unknown	BA010
		44	Approximate/About	BA010
		45	Natural	BA010
		46	Man-made	BA010
slt	Shoreline Type Category			
		0	Unknown	BA010
		6	Mangrove/Nipa	BA010
		8	Marsh, Swamp	BA010
		10	Rocky	BA010
		11	Rubble	BA010
		13	Sandy	BA010
		14	Stony, Shingly	BA010
		15	Other	BA010
vdc	Vertical Datum Category			
		0	Unknown	BA010
		7	Mean High Water	BA010
		9	Mean High Water Springs	BA010
		10	Mean Higher High Water	BA010
		15	Mean Sea Level	BA010
		24	Mean Higher High Water Springs	BA010
		26	Highest Normal High Water	BA010
		28	Highest High Water	BA010
		30	Indian Spring High Water	BA010
		999	Other	BA010

TABLE E-14. Political Boundary Line Feature Table.

Thematic Layer: Boundaries
Coverage Name: **bnd**
Table Description: Political Boundary Line Feature Table
Table Name: **polbndl.lft**
dq Layer Number: 1

```
{Header length}L;
Political Boundary Line Feature Table;-;
id=I,1,P,Row Identifier,-,-,-,:
f_code=T,5,N,FACC Feature Code,char.vdt,f_code3.lti,-,:
acc=S,1,N,Accuracy Category,int.vdt,-,-,:
nm3=T,*,N,Name 3,char.vdt,-,-,:
nm4=T,*,N,Name 4,char.vdt,-,-,:
use=S,1,N,Usage,int.vdt,-,-,:;
```

Column	Description	Value	Value Meaning	Applicable f_code for Each Attribute Value
id	Row Identifier	Sequential beginning with 1		
f_code	FACC Feature Code			
		FA000	Administrative Boundary	
		FA020	Armistice Line	
acc	Accuracy Category			
		0	Unknown	FA000, FA020
		1	Accurate	FA000, FA020
		2	Approximate	FA000, FA020
		5	Disputed	FA000, FA020
		6	Undisputed	FA000, FA020
nm3	Name 3 (Name of the political entity on one side (relative to **nm3**) of a boundary line)			
		Character text string		FA000, FA020
		"UNK" (no name present for feature)		FA000, FA020
nm4	Name 4 (Name of the political entity on the other side of the boundary line)			
		Character text string		FA000, FA020
		"UNK" (no name present for feature)		FA000, FA020
use	Usage			
		0	Unknown	FA000, FA020
		16	City	FA000, FA020
		23	International	FA000, FA020
		26	Primary/1st Order	FA000, FA020
		999	Other	FA000, FA020

TABLE E-15. Political Boundary Area Feature Table.

Thematic Layer: Boundaries
Coverage Name: **bnd**
Table Description: Political Boundary Area Feature Table
Table Name: **polbnda.aft**
dq Layer Number: 1

```
{Header length}L;
Political Boundary Area Feature Table;-;
id=I,1,P,Row Identifier,-,-,-,:
f_code=T,5,N,FACC Feature Code,char.vdt,f_code1.ati,-,:
acc=S,1,N,Accuracy Category,int.vdt,-,-,:
nm3=T,*,N,Name 3,char.vdt,-,-,:
nm4=T,*,N,Name 4,char.vdt,-,-,:
use=S,1,N,Usage,int.vdt,-,-,:;
```

Column	Description	Value	Value Meaning	Applicable f_code for Each Attribute Value
id	Row Identifier	Sequential beginning with 1		
f_code	FACC Feature Code			
		FA001	Administrative Area	
		FA070	Demilitarized Zone	
acc	Accuracy Category			
		0	Unknown	FA001, FA070
		1	Accurate	FA001, FA070
		2	Approximate	FA001, FA070
nm3	Name 3 (Name of the political entity)			
		Character text string		FA001, FA070
		"UNK" (no name present for feature)		FA001, FA070
nm4	Name 4 (Alternate name of the political entity)			
		Character text string		FA001, FA070
		"UNK" (no name present for feature)		FA001, FA070
use	Usage			
		-32768	Null	FA070
		0	Unknown	FA001
		16	City	FA001
		23	International	FA001
		26	Primary/1st Order	FA001

TABLE E-16. Boundaries Text Feature Table.

Thematic Layer: Boundaries
Coverage Name: **bnd**
Table Description: Boundaries Text Feature Table
Table Name: **bndtxt.tft**
dq Layer Number: 1

```
{Header length}L;
Boundaries Text Feature Table;-;
id=I,1,P,Row Identifier,-,-,-,:
f_code=T,5,N,FACC Feature Code,char.vdt,f_code1.tti,-,:
symbol_id=S,1,N,Symbol Identification,-,-,-,:
tile_id=S,1,N,Tile Reference ID,-,tile1_id.tti,-,:
txt_id=I,1,N,Text Primitive ID,-,txt1_id.tti,-,:;
```

Column	Description	Value	Value Meaning
id	Row Identifier	Sequential beginning with 1	
f_code	FACC Feature Code		
		ZD040	Named Location
		ZD045	Text Description
symbol_id	Symbol Identification (Refer to Symbol Related Attribute Table for selection of values)		

TABLE E-17. Boundaries Feature Class Attribute Table.

Thematic Layer: Boundaries
Coverage Name: **bnd**
Table Description: Boundaries Feature Class Attribute Table
Table Name: **fca**
dq Layer Number: 1

{Header length}L; Boundaries Feature Class Attribute Table;-; id=I,1,P,Row Identifier,-,-,-,: fclass=T,8,U,Feature Class Name,-,-,-,: type=T,1,N,Feature Type,char.vdt,-,-,: descr=T,*,N,Description,-,-,-,:;

1	markersp	P	Markers Points
:	:	:	:
n	n	n	n

Column	Description	Value	Value Meaning	Applicable fclass for Each Attribute Value
id	Row Identifier	Sequential beginning with 1		
fclass	Feature Class Name			
		markersp		
		barrierl		
		coastl		
		polbndl		
		polbnda		
		bndtxt		
type	Feature Type			
		P	Point/Node Feature	markersp
		L	Line Feature	barrierl,coastl, polbndl
		A	Area Feature	polbnda
		T	Text Feature	bndtxt
descr	Description			
		Markers Points		markersp
		Barrier Lines		barrierl
		Coastline Lines		coastl
		Political Boundary Lines		polbndl
		Political Boundary Areas		polbnda
		Boundaries Coverage Text		bndtxt

TABLE E-18. Boundaries Character Value Description Table.

Thematic Layer: Boundaries
Coverage Name: **bnd**
Table Description: Boundaries Character Value Description Table
Table Name: **char.vdt**
dq Layer Number: 1

{Header length}L;
Boundaries Character Value Description Table;-;
id=I,1,P,Row Identifier,-,-,-,:
table=T,12,N,Name of the Feature Table,-,-,-,:
attribute=T,6,N,Column Name,-,-,-,:
value=T,5,N,Unique Value of Attribute,-,-,-,:
description=T,29,N,Description of Value,-,-,-,:;

1	markersp.pft	f_code	ZB020	Benchmark
2	markersp.pft	f_code	ZB035	Control Point/Control Station
3	dqpoint.pft	f_code	ZB020	Benchmark
4	dqpoint.pft	f_code	ZB035	Control Point/Control Station
5	dqpoint.pft	f_code	ZD045	Text Description
6	barrierl.lft	f_code	AL070	Fence
7	barrierl.lft	f_code	AL260	Wall
8	coastl.lft	f_code	BA010	Coastline/Shoreline
9	polbndl.lft	f_code	FA000	Administrative Boundary
10	polbndl.lft	f_code	FA020	Armistice Line
11	polbndl.lft	nm3	UNK	No Name Present
12	polbndl.lft	nm4	UNK	No Name Present
13	dqline.lft	f_code	AL070	Fence
14	dqline.lft	f_code	AL260	Wall
15	dqline.lft	f_code	BA010	Coastline/Shoreline
16	dqline.lft	f_code	FA000	Administrative Boundary
17	dqline.lft	f_code	FA020	Armistice Line
18	dqline.lft	f_code	ZD045	Text Description
19	polbnda.aft	f_code	FA001	Administrative Area
20	polbnda.aft	f_code	FA070	Demilitarized Zone
21	polbnda.aft	nm3	UNK	No Name Present
22	polbnda.aft	nm4	UNK	No Name Present
23	dqarea.aft	f_code	FA001	Administrative Area
24	dqarea.aft	f_code	FA070	Demilitarized Zone
25	dqarea.aft	f_code	ZD045	Text Description
26	bndtxt.tft	f_code	ZD040	Named Location
27	bndtxt.tft	f_code	ZD045	Text Description
28	fca	type	A	Area Feature
29	fca	type	L	Line Feature
30	fca	type	P	Point/Node Feature
31	fca	type	T	Text Feature

TABLE E-19. Boundaries Integer Value Description Table.

Thematic Layer: Boundaries
Coverage Name: **bnd**
Table Description: Boundaries Integer Value Description Table
Table Name: **int.vdt**
dq Layer Number: 1

```
{Header length}L;
Boundaries Integer Value Description Table;-;
id=I,1,P,Row Identifier,-,-,-,:
table=T,12,N,Name of the Feature Table,-,-,-,:
attribute=T,3,N,Column Name,-,-,-,:
value=S,1,N,Unique Value of Attribute,-,-,-,:
description=T,30,N,Description of Value,-,-,-,:;
```

1	markersp.pft	cpa	0	Unknown
2	markersp.pft	cpa	1	Bench Mark
3	markersp.pft	cpa	5	Vertical
4	markersp.pft	zv2	9999	Unknown
5	barrierl.lft	pht	0	Unknown
6	coastl.lft	exs	0	Unknown
7	coastl.lft	exs	44	Approximate/About
8	coastl.lft	exs	45	Natural
9	coastl.lft	exs	46	Man-made
10	coastl.lft	slt	0	Unknown
11	coastl.lft	slt	6	Mangrove/Nipa
12	coastl.lft	slt	8	Marsh, Swamp
13	coastl.lft	slt	10	Rocky
14	coastl.lft	slt	11	Rubble
15	coastl.lft	slt	13	Sandy
16	coastl.lft	slt	14	Stony, Shingly
17	coastl.lft	slt	15	Other
18	coastl.lft	vdc	0	Unknown
19	coastl.lft	vdc	7	Mean High Water
20	coastl.lft	vdc	9	Mean High Water Springs
21	coastl.lft	vdc	10	Mean Higher High Water
22	coastl.lft	vdc	15	Mean Sea Level
23	coastl.lft	vdc	24	Mean Higher High Water Springs
24	coastl.lft	vdc	26	Highest Normal High Water
25	coastl.lft	vdc	28	Highest High Water
26	coastl.lft	vdc	30	Indian Spring High Water
27	coastl.lft	vdc	999	Other
28	polbndl.lft	acc	0	Unknown
29	polbndl.lft	acc	1	Accurate
30	polbndl.lft	acc	2	Approximate
31	polbndl.lft	acc	5	Disputed
32	polbndl.lft	acc	6	Undisputed
33	polbndl.lft	use	0	Unknown
34	polbndl.lft	use	16	City
35	polbndl.lft	use	23	International
36	polbndl.lft	use	26	Primary/1st Order

TABLE E-19. Boundaries Integer Value Description Table (Continued).

37	polbndl.lft	use	999	Other
38	polbnda.aft	acc	0	Unknown
39	polbnda.aft	acc	1	Accurate
40	polbnda.aft	acc	2	Approximate
41	polbnda.aft	use	0	Unknown
42	polbnda.aft	use	16	City
43	polbnda.aft	use	23	International
44	polbnda.aft	use	26	Primary/1st Order
45	symbol.rat	fon	1	Machine Default
46	symbol.rat	sty	1	Kern
47	symbol.rat	sty	2	Proportional
48	symbol.rat	sty	3	Constant
49	symbol.rat	col	1	Black
50	symbol.rat	col	4	Blue
51	symbol.rat	col	9	Red-Brown
52	symbol.rat	col	12	Magenta

E.3.3 Data Quality Coverage

A Data Quality coverage may be implemented as shown in TABLES E-20 to E-27. This coverage may contain information that affects the entire library. For example, the Line Feature Table dqline.lft (TABLE E-21) and line Related Attribute Table dqline.rat (TABLE E-22) are used to describe Data Quality conditions that result from the edge-matching of two source sheets.

TABLE E-20. Content and format for Data Quality Coverage Feature Class Schema Table.

Thematic Layer: Data Quality
Coverage Name: **dq**
Table Description: Data Quality Feature Class Schema Table
Table Name: **fcs**
dq Layer Number: Not Applicable

```
{Header length}L;
Data Quality Feature Class Schema Table;-;
id=I,1,P,Row Identifier,-,-,-,:
feature_class=T,8,N,Name of Feature Class,-,-,-,:
table1=T,12,N,First Table,-,-,-,:
table1_key=T,16,N,Column Name in First Table,-,-,-,:
table2=T,12,N,Second Table,-,-,-,:
table2_key=T,16,N,Column Name in Second Table,-,-,-,:;
```

1	dqline	dqline.lft	id	dqline.ljt	dqline.lft_id
2	dqline	dqline.ljt	edg_id	edg	id
3	dqline	edg	id	dqline.ljt	edg_id
4	dqline	dqline.ljt	dqline.lft_id	dqline.lft	id
5	dqline	dqline.lft	dqline_id	dqline.rat	dqline_id
6	dqline	dqline.rat	dqline_id	dqline.lft	dqline_id
7	dqarea	dqarea.aft	id	dqarea.ajt	dqarea.aft_id
8	dqarea	dqarea.ajt	fac_id	fac	id
9	dqarea	fac	id	dqarea.ajt	fac_id
10	dqarea	dqarea.ajt	dqarea.aft_id	dqarea.aft	id
11	dqarea	dqarea.aft	source_id	dqarea.rat	source_id
12	dqarea	dqarea.rat	source_id	dqarea.aft	source_id
13	dqtxt	dqtxt.tft	txt_id	txt	id
14	dqtxt	txt	id	dqtxt.tft	txt_id
15	dqtxt	dqtxt.tft	symbol_id	symbol.rat	symbol_id

TABLE E-21. Data Quality Line Feature Table.

Thematic Layer: Data Quality
Coverage Name: **dq**
Table Description: Data Quality Line Feature Table
Table Name: **dqline.lft**
dq Layer Number: Not Applicable

```
{Header length}L;
Data Quality Line Feature Table;-;
id=I,1,P,Row Identifier,-,-,-,:
dqline_id=I,1,N,Line Feature Identifier,-,-,-,:
source1=T,12,N,First Source Sheet or Data ID,-,-,-,:
source2=T,12,N,Second Source Sheet or Data ID,-,-,-,:;
```

Column	Description	Value	Value Meaning
id	Row Identifier	Sequential beginning with 1	
dqline_id	Line Feature Identifier		Data quality line feature identifier
source1	First Source Sheet or Data Identifier		This item contains the name of the first City Graphic map sheet number or other source where a line feature crosses and requires a data quality description (see **dqline.rat**). (e.g. 6446 II V782)
source2	Second Source Sheet or Data Identifier		This item contains the name of the second City Graphic map sheet number or other source where a line feature crosses and requires a data quality description (see **dqline.rat**)(e.g. 6446 I V782)

The concept of the data quality line feature class is to identify data quality conditions which occur as a result of an edge-matching process between two source materials.

TABLE E-22. Data Quality Line Related Attribute Table.

Thematic Layer: Data Quality
Coverage Name: **dq**
Table Description: Data Quality Line Related Attribute Table
Table Name: **dqline.rat**
dq Layer Number: Not Applicable

```
{Header Length}l;
Data Quality Line Related Attribute Table;-;
id=I,1,P,Row Identifier,-,-,-,:
dqline_id=I,1,N,Line Feature Identifier,-,-,-,:
layer=T,5,N,Data Quality Thematic Layer,-,-,-,:
dqdescr=T,*,N,DQ Description for Line Feature,-,-,-,:;
```

Column	**Description**	**Value**	**Value Meaning**
id	Row Identifier	Sequential beginning with 1	
dqline_id	Line Feature Identifier		Relate item to the **dqline.lft**
layer	Data Quality Thematic Layer		This is the thematic layer identifier for each layer in the UVMap database
dqdescr	Data Quality Description for Line Feature		This item contains a text string describing specific conditions occurring within the database for a particular line feature. Typically this refers to edgematch problems observed between two source maps and identifies any steps taken to ameliorate the problem.

TABLE E-23. Data Quality Area Feature Table.

Thematic Layer: Data Quality
Coverage Name: **dq**
Table Description: Data Quality Area Feature Table
Table Name: **dqarea.aft**
dq Layer Number: Not Applicable

```
{Header length}L;
Data Quality Area Feature Table;-;
id=I,1,P,Row Identifier,-,-,-,:
source_id=T,12,N,Source ID Name or Number,-,-,-,:
edition=T,10,N,Map Sheet Edition,-,-,-,:
comp_date=D,1,N,Map Compilation Date,-,-,-,:
rev_date=D,1,N,Map Revision Date,-,-,-,:
print_date=D,1,N,Map Print Date,-,-,-,:
source_info=T,*,N,General Source Information,-,-,-,:
abs_horiz_acc=S,1,N,Absolute Horizontal Accuracy (meters),-,-,-,:
abs_vert_acc=S,1,N,Absolute Vertical Accuracy (meters),-,-,-,:;
```

Column	**Description**	**Value**	**Value Meaning**
id	Row Identifier	Sequential beginning with 1	
source_id	Source Identification Name		Alphanumeric String of the City Graphic, other Map Sheet, or Source Name or Identification Number
edition	Map Sheet Edition		Alphanumeric String of the Map Sheet Edition
comp_date	Map Compilation Date		Appropriate date value or space character filled if null
rev_date	Map Revision Date		Appropriate date value or space character filled if null
print_date	Map Print Date		Appropriate date value or space character filled if null
source_info	General Source Information		Contains a description of conditions occurring in the database such as sheet-wide phenomena, regional phenomena, or marginalia. Character String of the Map Sheet Information (i.e., All roads are approximate alignment)

TABLE E-23. Data Quality Area Feature Table (Continued).

abs_horiz_acc	Absolute Horizontal Accuracy (meters)	NIMA - specified absolute horizontal accuracy
abs_vert_acc	Absolute Vertical Accuracy (meters)	NIMA - specified absolute vertical accurracy

TABLE E-24. Data Quality Area Related Attribute Table.

Thematic Layer: Data Quality
Coverage Name: **dq**
Table Description: Data Quality Area Related Attribute Table
Table Name: **dqarea.rat**
dq Layer Number: Not Applicable

```
{Header length}L;
Data Quality Area Related Attribute Table;-;
id=I,1,P,Row Identifier,-,-,-,:
source_id=T,12,N,Source ID Name or Number,-,-,-,:
layer=T,5,N,Data Quality Thematic Layer,-,-,-,:
dqdescr=T,*,N,DQ Description for Polygon Feature,-,-,-,:;
```

Column	Description	Value	Value Meaning
id	Row Identifier	Sequential beginning with 1	
source_id	Source Identification Name or Number		Alphanumeric String of the City Graphic, other Map Sheet, or Source Name or Identification Number
layer	Data Quality Thematic Layer		This is the thematic layer identifier for each layer in the UVMap database
dqdescr	Data Quality Description for Polygon Feature		This item contains a text string describing specific conditions occurring within the database for a particular polygon feature. Typically this refers to edgematch problems observed between two source maps and identifies any steps taken to ameliorate the problem.

TABLE E-25. Data Quality Text Feature Table.

Thematic Layer: Data Quality
Coverage Name: **dq**
Table Description: Data Quality Text Feature Table
Table Name: **dqtxt.tft**
dq Layer Number: Not Applicable

```
{Header length}L;
Data Quality Text Feature Table;-;
id=I,1,P,Row Identifier,-,-,-,:
f_code=T,5,N,FACC Feature Code,char.vdt,-,-,:
symbol_id=S,1,N,Symbol Identification,-,-,-,:
tile_id=S,1,N,Tile Reference ID,-,tile1_id.tti,-,:
txt_id=I,1,N,Text Primitive ID,-,txt1_id.tti,-,:;
```

Column	Description	Value	Value Meaning
id	Row Identifier	Sequential beginning with 1	
f_code	FACC Feature Code	ZD045	Text Description
symbol_id	Symbol Identification (Refer to Symbol Related Attribute Table for selection of values)		

TABLE E-26. Data Quality Character Value Description Table.

Thematic Layer: Data Quality
Coverage Name: **dq**
Table Description: Data Quality Character Value Description Table
Table Name: **char.vdt**
dq Layer Number: Not Applicable

{Header length}L;				
Data Quality Character Value Description Table;-;				
id=I,1,P,Row Identifier,-,-,-,:				
table=T,12,N,Name of the Feature Table,-,-,-,:				
attribute=T,6,N,Column Name,-,-,-,:				
value=T,5,N,Unique Value of Attribute,-,-,-,:				
description=T,16,N,Description of Value,-,-,-,:;				
1	dqtxt.tft	f_code	ZD045	Text Description

TABLE E-27. Data Quality Integer Value Description Table.

Thematic Layer: Data Quality
Coverage Name: **dq**
Table Description: Data Quality Integer Value Description Table
Table Name: **int.vdt**
dq Layer Number: Not Applicable

{Header length}L;				
Data Quality Integer Value Description Table;-;				
id=I,1,P,Row Identifier,-,-,-,:				
table=T,12,N,Name of the Feature Table,-,-,-,:				
attribute=T,3,N,Column Name,-,-,-,:				
value=S,1,N,Unique Value of Attribute,-,-,-,:				
description=T,16,N,Description of Value,-,-,-,:;				
1	symbol.rat	fon	1	Machine Default
2	symbol.rat	sty	1	Kern
3	symbol.rat	sty	2	Proportional
4	symbol.rat	sty	3	Constant
5	symbol.rat	col	1	Black
6	symbol.rat	col	4	Blue
7	symbol.rat	col	9	Red-Brown
8	symbol.rat	col	12	Magenta

E.3.4 Elevation Coverage

TABLE E-28. Content and format for Elevation Coverage Feature Class Schema Table.

Thematic Layer: Elevation
Coverage Name: **elev**
Table Description: Elevation Feature Class Schema Table
Table Name: **fcs**
dq Layer Number: 2

{Header length}L;					
Elevation Feature Class Schema Table;-;					
id=I,1,P,Row Identifier,-,-,-,:					
feature_class=T,8,N,Name of Feature Class,-,-,-,:					
table1=T,12,N,First Table,-,-,-,:					
table1_key=T,16,N,Column Name in First Table,-,-,-,:					
table2=T,12,N,Second Table,-,-,-,:					
table2_key=T,16,N,Column Name in Second Table,-,-,-,:;					
1	elevp	elevp.pft	end_id	end	id
2	elevp	end	id	elevp.pft	end_id
3	contourl	contourl.lft	id	contourl.ljt	contourl.lft_id
4	contourl	contourl.ljt	edg_id	edg	id
5	contourl	edg	id	contourl.ljt	edg_id
6	contourl	contourl.ljt	contourl.lft_id	contourl.lft	id
7	dqpoint	dqpoint.pft	end_id	end	id
8	dqpoint	end	id	dqpoint.pft	end_id
9	dqpoint	dqpoint.pft	dqdescr_id	dqdescr.rat	id
10	dqline	dqline.lft	id	dqline.ljt	dqline.lft_id
11	dqline	dqline.ljt	edg_id	edg	id
12	dqline	edg	id	dqline.ljt	edg_id
13	dqline	dqline.ljt	dqline.lft_id	dqline.lft	id
14	dqline	dqline.lft	dqdescr_id	dqdescr.rat	id
15	dqtext	dqtext.tft	txt_id	txt	id
16	dqtext	txt	id	dqtext.tft	txt_id
17	elevtxt	elevtxt.tft	txt_id	txt	id
18	elevtxt	txt	id	elevtxt.tft	txt_id
19	elevtxt	elevtxt.tft	symbol_id	symbol.rat	symbol_id

TABLE E-29. Elevation Point Feature Table.

Thematic Layer: Elevation
Coverage Name: **elev**
Table Description: Elevation Point Feature Table
Table Name: **elevp.pft**
dq Layer Number: 2

```
{Header length}L;
Elevation Point Feature Table;-;
id=I,1,P,Row Identifier,-,-,-,:
f_code=T,5,N,FACC Feature Code,char.vdt,-,-,:
acc=S,1,N,Accuracy Category,int.vdt,-,-,:
ela=S,1,N,Elevation Accuracy,int.vdt,-,-,:
zv2=S,1,N,Highest Z Value (meters),int.vdt,-,-,:
tile_id=S,1,N,Tile Reference ID,-,tile1_id.pti,-,:
end_id=I,1,N,Entity Node Primitive ID,-,end1_id.pti,-,:;
```

Column	Description	Value	Value Meaning	Applicable F_CODE for Each Attribute Value
id	Row Identifier	Sequential beginning with 1		
f_code	FACC Feature Code			
		CA030	Spot Elevation	
acc	Accuracy Category			
		0	Unknown	CA030
		1	Accurate	CA030
		2	Approximate	CA030
ela	Elevation Accuracy			
		0	Unknown	CA030
		1	Accurate	CA030
		2	Approximate	CA030
zv2	Highest Z Value (meters)			
		9999	Unknown	CA030
		-400 to 9998		CA030

TABLE E-30. Contour Line Feature Table.

Thematic Layer: Elevation
Coverage Name: **elev**
Table Description: Contour Line Feature Table
Table Name: **contourl.lft**
dq Layer Number: 2

```
{Header length}L;
Contour Line Feature Table;-;
id=I,1,P,Row Identifier,-,-,-,:
f_code=T,5,N,FACC Feature Code,char.vdt,-,-,:
hqc=S,1,N,Hypsography Portrayal Category,int.vdt,-,-,:
mcc=S,1,N,Material Composition Category,int.vdt,-,-,:
zv2=S,1,N,Highest Z Value (meters),int.vdt,-,-,:;
```

Note: A **contour.doc** table may be implemented when the source data are in feet and the contour values must be converted to meters.

Column	Description	Value	Value Meaning	Applicable F_CODE for Each Attribute Value
id	Row Identifier	Sequential beginning with 1		
f_code	FACC Feature Code			
		CA010	Contour Line (Land)	
hqc	Hypsography Portrayal Category			
		0	Unknown	CA010
		1	Index	CA010
		2	Intermediate	CA010
		3	Supplementary (1/2)	CA010
		5	Depression Index	CA010
		6	Depression Intermediate	CA010
		7	Approximate Index	CA010
		12	Intermediate Approximate	CA010
		14	Supplementary (1/4)	CA010
mcc	Material Composition Category			
		0	Unknown	CA010
		30	Earthen	CA010
		103	Snow/Ice	CA010
zv2	Highest Z Value (meters)			
		9999	Unknown	CA010
		-400 to 9998		CA010

TABLE E-31. Elevation Text Feature Table.

Thematic Layer: Elevation
Coverage Name: **elev**
Table Description: Elevation Text Feature Table
Table Name: **elevtxt.tft**
dq Layer Number: 2

```
{Header length}L;
Elevation Text Feature Table;-;
id=I,1,P,Row Identifier,-,-,-,:
f_code=T,5,N,FACC Feature Code,char.vdt,f_code1.tti,-,:
symbol_id=S,1,N,Symbol Identification,-,-,-,:
tile_id=S,1,N,Tile Reference ID,-,tile1_id.tti,-,:
txt_id=I,1,N,Text Primitive ID,-,txt1_id.tti,-,:;
```

Column	Description Value	Value Meaning	
id	Row Identifier	Sequential beginning with 1	
f_code	FACC Feature Code		
		ZD040	Named Location
		ZD045	Text Description
symbol_id	Symbol Identification (Refer to Symbol Related Attribute Table for selection of values)		

TABLE E-32. Elevation Feature Class Attribute Table.

Thematic Layer: Elevation
Coverage Name: **elev**
Table Description: Elevation Feature Class Attribute Table
Table Name: **fca**
dq Layer Number: 2

{Header length}L; Elevation Feature Class Attribute Table;-; id=I,1,P,Row Identifier,-,-,-,: fclass=T,8,U,Feature Class Name,-,-,-,: type=T,1,N,Feature Type,char.vdt,-,-,: descr=T,*,N,Description,-,-,-,:;

1	elevp	P	Elevation Points
:	:	:	:
n	n	n	n

Column	**Description**	**Value**	**Value Meaning**	**Applicable fclass for Each Attribute Value**
id	Row Identifier	Sequential beginning with 1		
fclass	Feature Class Name			
		elevp		
		contourl		
		elevtxt		
type	Feature Type			
		P	Point/Node Feature	elevp
		L	Line Feature	contourl
		T	Text Feature	elevtxt
descr	Description			
		Elevation Points		elevp
		Contour Lines		contourl
		Elevation Coverage Text		elevtxt

TABLE E-33. Elevation Character Value Description Table.

Thematic Layer: Elevation
Coverage Name: **elev**
Table Description: Elevation Character Value Description Table
Table Name: **char.vdt**
dq Layer Number: 2

{Header length}L;
Elevation Character Value Description Table;-;
id=I,1,P,Row Identifier,-,-,-,:
table=T,12,N,Name of the Feature Table,-,-,-,:
attribute=T,6,N,Column Name,-,-,-,:
value=T,5,N,Unique Value of Attribute,-,-,-,:
description=T,19,N,Description of Value,-,-,-,:;

1	elevp.pft	f_code	CA030	Spot Elevation
2	dqpoint.pft	f_code	CA030	Spot Elevation
3	dqpoint.pft	f_code	ZD045	Text Description
4	contourl.lft	f_code	CA010	Contour Line (Land)
5	dqline.lft	f_code	CA010	Contour Line (Land)
6	dqline.lft	f_code	ZD045	Text Description
7	elevtxt.tft	f_code	ZD040	Named Location
8	elevtxt.tft	f_code	ZD045	Text Description
9	fca	type	P	Point/Node Feature
10	fca	type	L	Line Feature
11	fca	type	T	Text Feature

TABLE E-34. Elevation Integer Value Description Table.

Thematic Layer: Elevation
Coverage Name: **elev**
Table Description: Elevation Integer Value Description Table
Table Name: **int.vdt**
dq Layer Number: 2

```
{Header length}L;
Elevation Integer Value Description Table;-;
id=I,1,P,Row Identifier,-,-,-,:
table=T,12,N,Name of the Feature Table,-,-,-,:
attribute=T,3,N,Column Name,-,-,-,:
value=S,1,N,Unique Value of Attribute,-,-,-,:
description=T,30,N,Description of Value,-,-,-,:;
```

1	elevp.pft	acc	0	Unknown
2	elevp.pft	acc	1	Accurate
3	elevp.pft	acc	2	Approximate
4	elevp.pft	ela	0	Unknown
5	elevp.pft	ela	1	Accurate
6	elevp.pft	ela	2	Approximate
7	elevp.pft	zv2	9999	Unknown
8	contourl.lft	hqc	0	Unknown
9	contourl.lft	hqc	1	Index
10	contourl.lft	hqc	2	Intermediate
11	contourl.lft	hqc	3	Supplementary (1/2)
12	contourl.lft	hqc	5	Depression Index
13	contourl.lft	hqc	6	Depression Intermediate
14	contourl.lft	hqc	7	Approximate Index
15	contourl.lft	hqc	12	Intermediate Approximate
16	contourl.lft	hqc	14	Supplementary (1/4)
17	contourl.lft	mcc	0	Unknown
18	contourl.lft	mcc	30	Earthen
19	contourl.lft	mcc	103	Snow/Ice
20	contourl.lft	zv2	9999	Unknown
21	symbol.rat	fon	1	Machine Default
22	symbol.rat	sty	1	Kern
23	symbol.rat	sty	2	Proportional
24	symbol.rat	sty	3	Constant
25	symbol.rat	col	1	Black
26	symbol.rat	col	4	Blue
27	symbol.rat	col	9	Red-Brown
28	symbol.rat	col	12	Magenta

E.3.5 Hydrography Coverage

TABLE E-35. Content and format for Hydrography Coverage Feature Class Schema Table.

Thematic Layer: Hydrography
Coverage Name: **hydro**
Table Description: Hydrography Feature Class Schema Table
Table Name: **fcs**
dq Layer Number: 3

```
{Header length}L;
Hydrography Feature Class Schema Table;-;
id=I,1,P,Row Identifier,-,-,-,:
feature_class=T,8,N,Name of Feature Class,-,-,-,:
table1=T,12,N,First Table,-,-,-,:
table1_key=T,16,N,Column Name in First Table,-,-,-,:
table2=T,12,N,Second Table,-,-,-,:
table2_key=T,16,N,Column Name in Second Table,-,-,-,:;
```

1	arrowp	arrowp.pft	end_id	end	id
2	arrowp	end	id	arrowp.pft	end_id
3	miscp	miscp.pft	end_id	end	id
4	miscp	end	id	miscp.pft	end_id
5	wellsprp	wellsprp.pft	end_id	end	id
6	wellsprp	end	id	wellsprp.pft	end_id
7	aquedctl	aquedctl.lft	id	aquedctl.ljt	aquedctl.lft_id
8	aquedctl	aquedctl.ljt	edg_id	edg	id
9	aquedctl	edg	id	aquedctl.ljt	edg_id
10	aquedctl	aquedctl.ljt	aquedctl.lft_id	aquedctl.lft	id
11	daml	daml.lft	id	daml.ljt	daml.lft_id
12	daml	daml.ljt	edg_id	edg	id
13	daml	edg	id	daml.ljt	edg_id
14	daml	daml.ljt	daml.lft_id	daml.lft	id
15	inshorel	inshorel.lft	id	inshorel.ljt	inshorel.lft_id
16	inshorel	inshorel.ljt	edg_id	edg	id
17	inshorel	edg	id	inshorel.ljt	edg_id
18	inshorel	inshorel.ljt	inshorel.lft_id	inshorel.lft	id
19	miscl	miscl.lft	id	miscl.ljt	miscl.lft_id
20	miscl	miscl.ljt	edg_id	edg	id
21	miscl	edg	id	miscl.ljt	edg_id
22	miscl	miscl.ljt	miscl.lft_id	miscl.lft	id
23	seastrtl	seastrtl.lft	id	seastrtl.ljt	seastrtl.lft_id
24	seastrtl	seastrtl.ljt	edg_id	edg	id
25	seastrtl	edg	id	seastrtl.ljt	edg_id
26	seastrtl	seastrtl.ljt	seastrtl.lft_id	seastrtl.lft	id
27	watrcrsl	watrcrsl.lft	id	watrcrsl.ljt	watrcrsl.lft_id
28	watrcrsl	watrcrsl.ljt	edg_id	edg	id
29	watrcrsl	edg	id	watrcrsl.ljt	edg_id
30	watrcrsl	watrcrsl.ljt	watrcrsl.lft_id	watrcrsl.lft	id
31	coasta	coasta.aft	id	coasta.ajt	coasta.aft_id
32	Coasta	coasta.ajt	fac_id	fac	id
33	coasta	fac	id	coasta.ajt	fac_id

TABLE E-35. Content and format for Hydrography Coverage Feature Class Schema Table (Continued).

34	Coasta	coasta.ajt	coasta.aft_id	coasta.aft	id
35	dama	dama.aft	id	dama.ajt	dama.aft_id
36	dama	dama.ajt	fac_id	fac	id
37	dama	fac	id	dama.ajt	fac_id
38	dama	dama.ajt	dama.aft_id	dama.aft	id
39	inunda	inunda.aft	id	inunda.ajt	inunda.aft_id
40	inunda	inunda.ajt	fac_id	fac	id
41	inunda	fac	id	inunda.ajt	fac_id
42	inunda	inunda.ajt	inunda.aft_id	inunda.aft	id
43	lakeresa	lakeresa.aft	id	lakeresa.ajt	lakeresa.aft_id
44	lakeresa	lakeresa.ajt	fac_id	fac	id
45	lakeresa	fac	id	lakeresa.ajt	fac_id
46	lakeresa	lakeresa.ajt	lakeresa.aft_id	lakeresa.aft	id
47	locka	locka.aft	id	locka.ajt	locka.aft_id
48	locka	locka.ajt	fac_id	fac	id
49	locka	fac	id	locka.ajt	fac_id
50	locka	locka.ajt	locka.aft_id	locka.aft	id
51	misca	misca.aft	id	misca.ajt	misca.aft_id
52	misca	misca.ajt	fac_id	fac	id
53	misca	fac	id	misca.ajt	fac_id
54	misca	misca.ajt	misca.aft_id	misca.aft	id
55	seastrta	seastrta.aft	id	seastrta.ajt	seastrta.aft_id
56	seastrta	seastrta.ajt	fac_id	fac	id
57	seastrta	fac	id	seastrta.ajt	fac_id
58	seastrta	seastrta.ajt	seastrta.aft_id	seastrta.aft	id
59	watrcrsa	watrcrsa.aft	id	watrcrsa.ajt	watrcrsa.aft_id
60	watrcrsa	watrcrsa.ajt	fac_id	fac	id
61	watrcrsa	fac	id	watrcrsa.ajt	fac_id
62	watrcrsa	watrcrsa.ajt	watrcrsa.aft_id	watrcrsa.aft	id
63	dqpoint	dqpoint.pft	end_id	end	id
64	dqpoint	end	id	dqpoint.pft	end_id
65	dqpoint	dqpoint.pft	dqdescr_id	dqdescr.rat	id
66	dqline	dqline.lft	id	dqline.ljt	dqline.lft_id
67	dqline	dqline.ljt	edg_id	edg	id
68	dqline	edg	id	dqline.ljt	edg_id
69	dqline	dqline.ljt	dqline.lft_id	dqline.lft	id
70	dqline	dqline.lft	dqdescr_id	dqdescr.rat	id
71	dqarea	dqarea.aft	id	dqarea.ajt	dqarea.aft_id
72	dqarea	dqarea.ajt	fac_id	fac	id
73	dqarea	fac	id	dqarea.ajt	fac_id
74	dqarea	dqarea.ajt	dqarea.aft_id	dqarea.aft	id
75	dqarea	dqarea.aft	dqdescr_id	dqdescr.rat	id
76	dqtext	dqtext.tft	txt_id	txt	id
77	dqtext	txt	id	dqtext.tft	txt_id
78	hydrotxt	hydrotxt.tft	txt_id	txt	id
79	hydrotxt	txt	id	hydrotxt.tft	txt_id
80	hydrotxt	hydrotxt.tft	symbol_id	symbol.rat	symbol_id

TABLE E-36. Arrow Point Feature Table.

Thematic Layer: Hydrography
Coverage Name: **hydro**
Table Description: Arrow Point Feature Table
Table Name: **arrowp.pft**
dq Layer Number: 3

```
{Header length}L;
Arrow Point Feature Table;-;
id=I,1,P,Row Identifier,-,-,-,:
f_code=T,5,N,FACC Feature Code,char.vdt,-,-,:
aoo=S,1,N,Angle of Orientation (degrees),-,-,-,:
cur=S,1,N,Current Type Category,int.vdt,-,-,:
sgc=S,1,N,Gradient/Slope (percent),int.vdt,-,-,:
tile_id=S,1,N,Tile Reference ID,-,tile1_id.pti,-,:
end_id=I,1,N,Entity Node Primitive ID,-,end1_id.pti,-,:;
```

Column	Description	Value	Value Meaning	Applicable f_code for Each Attribute Value
id	Row Identifier	Sequential beginning with 1		
f_code	FACC Feature Code			
		BG010	Current Flow	
aoo	Angle of Orientation (degrees)			
		0-359	Degrees from North	BG010
cur	Current Type Category			
		0	Unknown	BG010
		2	Flood	BG010
		3	General Flow	BG010
		4	River Flow	BG010
		5	Ocean Flow	BG010
sgc	Gradient/Slope (percent)			
		0	Unknown	BG010
		>0	Actual Value	BG010

TABLE E-37. Miscellaneous Point Feature Table.

Thematic Layer: Hydrography
Coverage Name: **hydro**
Table Description: Miscellaneous Point Feature Table
Table Name: **miscp.pft**
dq Layer Number: 3

```
{Header length}L;
Miscellaneous Point Feature Table;-;
id=I,1,P,Row Identifier,-,-,-,:
f_code=T,5,N,FACC Feature Code,char.vdt,f_code2.pti,-,:
len=S,1,N,Length (meters),int.vdt,-,-,:
wid=S,1,N,Width (meters),int.vdt,-,-,:
tile_id=S,1,N,Tile Reference ID,-,tile2_id.pti,-,:
end_id=I,1,N,Entity Node Primitive ID,-,end2_id.pti,-,:;
```

Column	**Description**	**Value**	**Value Meaning**	**Applicable f_code for Each Attribute Value**
id	Row Identifier	Sequential beginning with 1		
f_code	FACC Feature Code			
		BH165	Spillway	
		BI040	Sluice Gate	
		BI050	Water Intake Tower	
len	Length (meters)			
		-32768	Null	BI050
		0	Unknown	BH165, BI040
		>0	Actual Value	BH165, BI040

* Features with LEN values => 10 are captured as line features.

wid	Width (meters)			
		-32768	Null	BI050
		0	Unknown	BH165, BI040
		>0	Actual Value	BH165, BI040

TABLE E-38. Well Spring Point Feature Table.

Thematic Layer: Hydrography
Coverage Name: **hydro**
Table Description: Well Spring Point Feature Table
Table Name: **wellsprp.pft**
dq Layer Number: 3

```
{Header length}L;
Well Spring Point Feature Table;-;
id=I,1,P,Row Identifier,-,-,-,:
f_code=T,5,N,FACC Feature Code,char.vdt,f_code3.pti,-,:
exs=S,1,N,Existence Category,int.vdt,-,-,:
hyc=S,1,N,Hydrological Category,int.vdt,-,-,:
loc=S,1,N,Location Category,int.vdt,-,-,:
nam=T,*,N,Name,char.vdt,-,-,:
pro=S,1,N,Product Category,int.vdt,-,-,:
scc=S,1,N,Spring/Well Characteristic Category,int.vdt,-,-,:
swt=S,1,N,Well/Spring Type,int.vdt,-,-,:
tra=S,1,N,Traversability,int.vdt,-,-,:
wft=S,1,N,Well Feature Type,int.vdt,-,-,:
tile_id=S,1,N,Tile Reference ID,-,tile3_id.pti,-,:
end_id=I,1,N,Entity Node Primitive ID,-,end3_id.pti,-,:;
```

Column	**Description**	**Value**	**Value Meaning**	**Applicable f_code for Each Attribute Value**
id	Row Identifier	Sequential beginning with 1		
f_code	FACC Feature Code			
		AA050	Well	
		BH010	Aqueduct	
		BH170	Spring/Water-Hole	
exs	Existence Category			
		0	Unknown	AA050, BH170
		3	Reported	AA050, BH170
		6	Abandoned/Disused	AA050, BH010, BH170
		28	Operational	AA050, BH010, BH170
hyc	Hydrological Category			
		-32768	Null	BH010
		0	Unknown	AA050, BH170
		2	Not Applicable	AA050
		3	Dry	AA050, BH170
		6	Non-Perennial/ Intermittent/ Fluctuating	AA050, BH170
		8	Perennial/Permanent	AA050, BH170

TABLE E-38. Well Spring Point Feature Table (Continued).

loc	Location Category			
		-32768	Null	AA050, BH170
		0	Unknown	BH010
		4	Below Surface/Submerged/ Underground	BH010
		8	On Ground Surface	BH010
		25	Suspended/Elevated Above Ground or Water Surface	BH010
nam	Name			
		VLT=0-length	Null	BH170
		Character text string		AA050, BH010
		"UNK" (no name present for feature)		AA050, BH010
pro	Product Category			
		-32768	Null	BH010, BH170
		0	Unknown	AA050
		116	Water	AA050
scc	Spring/Well Characteristic Category			
		-32768	Null	BH010
		0	Unknown	AA050, BH170
		1	Alkaline	AA050, BH170
		2	Not Applicable	AA050, BH170
		4	Mineral	AA050, BH170
		9	Freshwater/Potable	AA050, BH170
swt	Well/Spring Type			
		-32768	Null	AA050, BH010
		0	Unknown	BH170
		1	Geyser	BH170
		4	Artesian	BH170
		5	Water Hole	BH170
		6	Walled-in Spring	BH170
tra	Traversability			
		-32768	Null	AA050, BH170
		0	Unknown	BH010
		1	Traversability	BH010
		2	Non-Traversable	BH010

TABLE E-38. Well Spring Point Feature Table (Continued).

wft	Well Feature Type			
		-32768	Null	BH010, BH170
		0	Unknown	AA050
		1	Waterhole	AA050
		2	Walled-in Spring	AA050
		3	Artesian Well	AA050
		4	Fountain	AA050
		5	Dug or Drilled Well	AA050

TABLE E-39. Aqueduct Line Feature Table.

Thematic Layer: Hydrography
Coverage Name: **hydro**
Table Description: Aqueduct Line Feature Table
Table Name: **aquedctl.lft**
dq Layer Number: 3

```
{Header length}L;
Aqueduct Line Feature Table;-;
id=I,1,P,Row Identifier,-,-,-,:
f_code=T,5,N,FACC Feature Code,char.vdt,-,-,:
atc=S,1,N,Aqueduct Type Category,int.vdt,-,-,:
exs=S,1,N,Existence Category,int.vdt,-,-,:
loc=S,1,N,Location Category,int.vdt,-,-,:
nam=T,*,N,Name,char.vdt,-,-,:
tra=S,1,N,Traversability,int.vdt,-,-,:
wid=S,1,N,Width (meters),int.vdt,-,-,:;
```

Column	**Description**	**Value**	**Value Meaning**	**Applicable f_code for Each Attribute Value**
id	Row Identifier	Sequential beginning with 1		
f_code	FACC Feature Code			
		BH010	Aqueduct	
atc	Aqueduct Type Category			
		0	Unknown	BH010
		1	Qanat/Kanat/Karez Shaft	BH010
		2	Other	BH010
		3	Underground Aqueduct	BH010
exs	Existence Category			
		0	Unknown	BH010
		5	Under Construction	BH010
		6	Abandoned/Disused	BH010
		28	Operational	BH010

TABLE E-39. Aqueduct Line Feature Table (Continued).

loc	Location Category			
		0	Unknown	BH010
		4	Below Surface/Submerged/ Underground	BH010
		8	On Ground Surface	BH010
		25	Suspended/Elevated Above Ground or Water Surface	BH010
nam	Name	Character text string		BH010
		"UNK" (no name present for feature)		BH010
tra	Traversability			
		0	Unknown	BH010
		1	Traversability	BH010
		2	Non-Traversable	BH010
wid	Width (meters)	0	Unknown	BH010
		>0	Actual Value	BH010

TABLE E-40. Dam Line Feature Table.

Thematic Layer: Hydrography
Coverage Name: **hydro**
Table Description: Dam Line Feature Table
Table Name: **daml.lft**
dq Layer Number: 3

```
{Header length}L;
Dam Line Feature Table;-;
id=I,1,P,Row Identifier,-,-,-,:
f_code=T,5,N,FACC Feature Code,char.vdt,-,-,:
exs=S,1,N,Existence Category,int.vdt,-,-,:
mcc=S,1,N,Material Composition Category,int.vdt,-,-,:
nam=T,*,N,Name,char.vdt,-,-,:
tuc=S,1,N,Transportation Use Category,int.vdt,-,-,:
wid=S,1,N,Width (meters),int.vdt,-,-,:;
```

Column	**Description**	**Value**	**Value Meaning**	**Applicable f_code for Each Attribute Value**
id	Row Identifier	Sequential beginning with 1		
f_code	FACC Feature Code			
		BI020	Dam/Weir	
exs	Existence Category			
		0	Unknown	BI020
		5	Under Construction	BI020
		28	Operational	BI020
mcc	Material Composition Category			
		0	Unknown	BI020
		20	Composition	BI020
		21	Concrete	BI020
		30	Earthen	BI020
		62	Masonry (Brick/Stone)	BI020
		999	Other	BI020
nam	Name			
		Character text string		BI020
		"UNK" (no name present for feature)		BI020
tuc	Transportation Use Category			
		0	Unknown	BI020
		1	Both Road and Railroad	BI020
		3	Railroad	BI020
		4	Road	BI020
		6	Street	BI020
		35	No Transport Use	BI020
wid	Width (meters)			
		0	Unknown	BI020
		>0	Actual Value	BI020

TABLE E-41. Inland Shoreline Line Feature Table.

Thematic Layer: Hydrography
Coverage Name: **hydro**
Table Description: Inland Shoreline Line Feature Table
Table Name: **inshorel.lft**
dq Layer Number: 3

```
{Header length}L;
Inland Shoreline Line Feature Table;-;
id=I,1,P,Row Identifier,-,-,-,:
f_code=T,5,N,FACC Feature Code,char.vdt,-,-,:
ahc=S,1,N,Associated Hydrographic Category,int.vdt,-,-,:
exs=S,1,N,Existence Category,int.vdt,-,-,:
slt=S,1,N,Shoreline Type Category,int.vdt,-,-,:;
```

Column	Description	Value	Value Meaning	Applicable f_code for Each Attribute Value
id	Row Identifier	Sequential beginning with 1		
f_code	FACC Feature Code			
		BH210	Inland Shoreline	
ahc	Associated Hydrographic Category			
		0	Unknown	BH210
		1	Perennial	BH210
		2	Intermittent	BH210
		3	Ephemeral	BH210
exs	Existence Category			
		0	Unknown	BH210
		44	Approximate/About	BH210
		45	Natural	BH210
		46	Man-made	BH210
slt	Shoreline Type Category			
		0	Unknown	BH210
		6	Mangrove/Nipa	BH210
		8	Marsh, Swamp	BH210
		10	Rocky	BH210
		11	Rubble	BH210
		13	Sandy	BH210
		14	Stony, Shingly	BH210
		15	Other	BH210

TABLE E-42. Miscellaneous Line Feature Table.

Thematic Layer: Hydrography
Coverage Name: **hydro**
Table Description: Miscellaneous Line Feature Table
Table Name: **miscl.lft**
dq Layer Number: 3

```
{Header length}L;
Miscellaneous Line Feature Table;-;
id=I,1,P,Row Identifier,-,-,-,:
f_code=T,5,N,FACC Feature Code,char.vdt,f_code4.lti,-,:
loc=S,1,N,Location Category,int.vdt,-,-,:;
```

Column	**Description**	**Value**	**Value Meaning**	**Applicable f_code for Each Attribute Value**
id	Row Identifier	Sequential beginning with 1		
f_code	FACC Feature Code			
		AQ065	Culvert	
		BH110	Penstock	
		BH165	Spillway	
		BI040	Sluice Gate	
loc	Location Category			
		-32768	Null	AQ065, BI040
		0	Unknown	BH110, BH165
		4	Below Surface/Submerged/ Underground	BH110, BH165
		8	On Ground Surface	BH110, BH165
		25	Suspended/Elevated Above Ground or Water Surface	BH110, BH165

TABLE E-43. Sea Structure Line Feature Table.

Thematic Layer: Hydrography
Coverage Name: **hydro**
Table Description: Sea Structure Line Feature Table
Table Name: **seastrtl.lft**
dq Layer Number: 3

```
{Header length}L;
Sea Structure Line Feature Table;-;
id=I,1,P,Row Identifier,-,-,-,:
f_code=T,5,N,FACC Feature Code,char.vdt,f_code5.lti,-,:
vrr=S,1,N,Vertical Reference Category,int.vdt,-,-,:
wid=S,1,N,Width (meters),int.vdt,-,-,:;
```

Column	Description	Value	Value Meaning	Applicable f_code for Each Attribute Value
id	Row Identifier	Sequential beginning with 1		
f_code	FACC Feature Code			
		BB040	Breakwater/Groyne	
		BB140	Jetty	
		BB230	Seawall	
vrr	Vertical Reference Category			
		-32768	Null	BB230
		0	Unknown	BB040, BB140
		1	Above Surface/Does not cover (At High Water)	BB040, BB140
wid	Width (meters)			
		-32768	Null	BB230
		0	Unknown	BB040, BB140
		>0	Actual Value	BB040, BB140

TABLE E-44. Water Course Line Feature Table.

Thematic Layer: Hydrography
Coverage Name: **hydro**
Table Description: Water Course Line Feature Table
Table Name: **watrcrsl.lft**
dq Layer Number: 3

```
{Header length}L;
Water Course Line Feature Table;-;
id=I,1,P,Row Identifier,-,-,-,:
f_code=T,5,N,FACC Feature Code,char.vdt,f_code6.lti,-,:
acc=S,1,N,Accuracy Category,int.vdt,-,-,:
exs=S,1,N,Existence Category,int.vdt,-,-,:
hyc=S,1,N,Hydrological Category,int.vdt,-,-,:
nam=T,*,N,Name,char.vdt,-,-,:
wid=S,1,N,Width (meters),int.vdt,-,-,:;
```

Column	Description	Value	Value Meaning	Applicable f_code for Each Attribute Value
id	Row Identifier	Sequential beginning with 1		
f_code	FACC Feature Code			
		BH020	Canal	
		BH030	Ditch	
		BH140	River/Stream	
acc	Accuracy Category			
		-32768	Null	BH020, BH030
		0	Unknown	BH140
		1	Accurate	BH140
		2	Approximate	BH140
exs	Existence Category			
		-32768	Null	BH030
		0	Unknown	BH020, BH140
		5	Under Construction	BH020
		6	Abandoned/Disused	BH020
		30	Not Isolated	BH140
		31	Isolated	BH140
		32	Navigable	BH020
hyc	Hydrological Category			
		0	Unknown	BH020, BH140, BH030
		3	Dry	BH020, BH140
		6	Non-Perennial/ Intermittent/ Fluctuating	BH030, BH140
		8	Perennial/Permanent	BH020, BH030, BH140

TABLE E-44. Water Course Line Feature Table (Continued).

nam	Name	VLT=0-length Null		BH030
		Character text string		BH020, BH140
		"UNK" (no name present for feature)		BH020, BH140
wid	Width (meters)			
		0	Unknown	BH020, BH030, BH140
		>0	Actual Value	BH020, BH030, BH140

TABLE E-45. Coast Area Feature Table.

Thematic Layer: Hydrography
Coverage Name: **hydro**
Table Description: Coast Area Feature Table
Table Name: **coasta.aft**
dq Layer Number: 3

```
{Header length}L;
Coast Area Feature Table;-;
id=I,1,P,Row Identifier,-,-,-,:
f_code=T,5,N,FACC Feature Code,char.vdt,-,-,:
nam=T,*,N,Name,char.vdt,-,-,:;
```

Column	**Description**	**Value**	**Value Meaning**	**Applicable f_code for Each Attribute Value**
id	Row Identifier	Sequential beginning with 1		
f_code	FACC Feature Code			
		BA040	Water (Except Inland)	
nam	Name			
		Character text string		BA040
		"UNK" (no name present for feature)		BA040

TABLE E-46. Dam Area Feature Table.

Thematic Layer: Hydrography
Coverage Name: **hydro**
Table Description: Dam Area Feature Table
Table Name: **dama.aft**
dq Layer Number: 3

```
{Header length}L;
Dam Area Feature Table;-;
id=I,1,P,Row Identifier,-,-,-,:
f_code=T,5,N,FACC Feature Code,char.vdt,-,-,:
mcc=S,1,N,Material Composition Category,int.vdt,-,-,:
nam=T,*,N,Name,char.vdt,-,-,:
tuc=S,1,N,Transportation Use Category,int.vdt,-,-,:;
```

Column	Description	Value	Value Meaning	Applicable f_code for Each Attribute Value
id	Row Identifier	Sequential beginning with 1		
f_code	FACC Feature Code			
		BI020	Dam/Weir	
mcc	Material Composition Category			
		0	Unknown	BI020
		20	Composition	BI020
		21	Concrete	BI020
		30	Earthen	BI020
		62	Masonry (Brick/Stone)	BI020
		999	Other	BI020
nam	Name			
		Character text string		BI020
		"UNK" (no name present for feature)		BI020
tuc	Transportation Use Category			
		0	Unknown	BI020
		1	Both Road and Railroad	BI020
		3	Railroad	BI020
		4	Road	BI020
		6	Street	BI020
		35	No Transport Use	BI020
		999	Other	BI020

TABLE E-47. Inundation Area Feature Table.

Thematic Layer: Hydrography
Coverage Name: **hydro**
Table Description: Inundation Area Feature Table
Table Name: **inunda.aft**
dq Layer Number: 3

```
{Header length}L;
Inundation Area Feature Table;-;
id=I,1,P,Row Identifier,-,-,-,:
f_code=T,5,N,FACC Feature Code,char.vdt,-,-,:
ara=S,1,N,Area Coverage Attribute (sq. meters),int.vdt,-,-,:
arh=S,1,N,Area Coverage Attribute Hectares,-,-,-,:
hoc=S,1,N,Hydrographic Origin Category,int.vdt,-,-,:;
```

Column	Description	Value	Value Meaning	Applicable f_code for Each Attribute Value
id	Row Identifier	Sequential beginning with 1		
f_code	FACC Feature Code			
		BH090	Land Subject to Inundation	
ara	Area Coverage Attribute (sq. meters)			
		-32768	Null	BH090 **arh**>0
		0	Unknown	BH090 **arh**=-32768
		>0	Actual Value	BH090 **arh**=-32768
arh	Area Coverage Attribute Hectares			
		-32768	Null	BH090 **ara**>=0
		>0	Actual Value	BH090 **ara**=-32768
hoc	Hydrographic Origin Category			
		0	Unknown	BH090
		1	Controlled	BH090
		5	Natural	BH090

TABLE E-48. Lake Reservoir Area Feature Table.

Thematic Layer: Hydrography
Coverage Name: **hydro**
Table Description: Lake Reservoir Area Feature Table
Table Name: **lakeresa.aft**
dq Layer Number: 3

```
{Header length}L;
Lake Reservoir Area Feature Table;-;
id=I,1,P,Row Identifier,-,-,-,:
f_code=T,5,N,FACC Feature Code,char.vdt,f_code4.ati,-,:
ara=S,1,N,Area Coverage Attribute (sq. meters),int.vdt,-,-,:
arh=S,1,N,Area Coverage Attribute Hectares,-,-,-,:
exs=S,1,N,Existence Category,int.vdt,-,-,:
hyc=S,1,N,Hydrological Category,int.vdt,-,-,:
nam=T,*,N,Name,char.vdt,-,-,:
scc=S,1,N,Spring/Well Characteristic Category,int.vdt,-,-,:
zv2=S,1,N,Highest Z Value (meters),int.vdt,-,-,:;
```

Column	**Description**	**Value**	**Value Meaning**	**Applicable f_code for Each Attribute Value**
id	Row Identifier	Sequential beginning with 1		
f_code	FACC Feature Code			
		BH080	Lake/Pond	
		BH100	Moat	
		BH130	Reservoir	
ara	Area Coverage Attribute (sq. meters)			
		-32768	Null	BH080 **arh**>0, BH100 **arh**>0, BH130 **arh**>0
		0	Unknown	BH080 **arh**=-32768, BH100 **arh**=-32768, BH130 **arh**=-32768
		>0	Actual Value	BH080 **arh**=-32768, BH100 **arh**=-32768, BH130 **arh**=-32768
arh	Area Coverage Attribute Hectares			
		-32768	Null	BH080 **ara**>=0, BH100 **ara**>=0, BH130 **ara**>=0
		>0	Actual Value	BH080 **ara**=-32768, BH100 **ara**=-32768, BH130 **ara**=-32768

TABLE E-48. Lake Reservoir Area Feature Table (Continued).

exs	Existence Category			
		-32768	Null	BH080
		0	Unknown	BH100, BH130
		1	Definite	BH100, BH130
		5	Under Construction	BH100, BH130
		28	Operational	BH100, BH130
hyc	Hydrological Category			
		0	Unknown	BH080, BH100, BH130
		3	Dry	BH080, BH100, BH130
		6	Non-Perennial/ Intermittent/ Fluctuating	BH080, BH100, BH130
		8	Perennial/Permanent	BH080, BH100, BH130
nam	Name			
		Character text string		BH080, BH100, BH130
		"UNK" (no name present for feature)		BH080, BH100, BH130
scc	Spring/Well Characteristic Category			
		-32768	Null	BH130
		0	Unknown	BH080, BH100
		9	Freshwater/Potable	BH080, BH100
		10	Salt	BH080, BH100
zv2	Highest Z Value (meters)			
		-32768	Null	BH130
		9999	Unknown	BH080, BH100
		-400 to 9998		BH080, BH100

TABLE E-49. Lock Area Feature Table.

Thematic Layer: Hydrography
Coverage Name: **hydro**
Table Description: Lock Area Feature Table
Table Name: **locka.aft**
dq Layer Number: 3

```
{Header length}L;
Lock Area Feature Table;-;
id=I,1,P,Row Identifier,-,-,-,:
f_code=T,5,N,FACC Feature Code,char.vdt,-,-,:
exs=S,1,N,Existence Category,int.vdt,-,-,:
nam=T,*,N,Name,char.vdt,-,-,:;
```

Column	Description	Value	Value Meaning	Applicable f_code for Each Attribute Value
id	Row Identifier	Sequential beginning with 1		
f_code	FACC Feature Code			
		BI030	Lock	
exs	Existence Category			
		0	Unknown	BI030
		5	Under Construction	BI030
		28	Operational	BI030
nam	Name			
		Character text string		BI030
		"UNK" (no name present for feature)		BI030

TABLE E-50. Miscellaneous Area Feature Table.

Thematic Layer: Hydrography
Coverage Name: **hydro**
Table Description: Miscellaneous Area Feature Table
Table Name: **misca.aft**
dq Layer Number: 3

```
{Header length}L;
Miscellaneous Area Feature Table;-;
id=I,1,P,Row Identifier,-,-,-,:
f_code=T,5,N,FACC Feature Code,char.vdt,f_code6.ati,-,:;
```

Column	**Description**	**Value**	**Value Meaning**	**Applicable f_code for Each Attribute Value**
id	Row Identifier	Sequential beginning with 1		
f_code	FACC Feature Code			
		AQ065	Culvert	
		BH165	Spillway	
		BI050	Water Intake Tower	

TABLE E-51. Sea Structure Area Feature Table.

Thematic Layer: Hydrography
Coverage Name: **hydro**
Table Description: Sea Structure Area Feature Table
Table Name: **seastrta.aft**
dq Layer Number: 3

```
{Header length}L;
Sea Structure Area Feature Table;-;
id=I,1,P,Row Identifier,-,-,-,:
f_code=T,5,N,FACC Feature Code,char.vdt,f_code7.ati,-,:
vrr=S,1,N,Vertical Reference Category,int.vdt,-,-,:;
```

Column	**Description**	**Value**	**Value Meaning**	**Applicable f_code for Each Attribute Value**
id	Row Identifier	Sequential beginning with 1		
f_code	FACC Feature Code			
		BB040	Breakwater/Groyne	
		BB140	Jetty	
vrr	Vertical Reference Category			
		0	Unknown	BB040, BB140
		1	Above Surface/Does not cover (At High Water)	BB040, BB140

TABLE E-52. Water Course Area Feature Table.

Thematic Layer: Hydrography
Coverage Name: **hydro**
Table Description: Water Course Area Feature Table
Table Name: **watrcrsa.aft**
dq Layer Number: 3

```
{Header length}L;
Water Course Area Feature Table;-;
id=I,1,P,Row Identifier,-,-,-,:
f_code=T,5,N,FACC Feature Code,char.vdt,f_code8.ati,-,:
acc=S,1,N,Accuracy Category,int.vdt,-,-,:
exs=S,1,N,Existence Category,int.vdt,-,-,:
hyc=S,1,N,Hydrological Category,int.vdt,-,-,:
nam=T,*,N,Name,char.vdt,-,-,:;
```

Column	Description	Value	Value Meaning	Applicable f_code for Each Attribute Value
id	Row Identifier	Sequential beginning with 1		
f_code	FACC Feature Code			
		BH020	Canal	
		BH030	Ditch	
		BH140	River/Stream	
acc	Accuracy Category			
		-32768	Null	BH030
		0	Unknown	BH020, BH140
		1	Accurate	BH020, BH140
		2	Approximate	BH020, BH140
exs	Existence Category			
		-32768	Null	BH030
		0	Unknown	BH020, BH140
		5	Under Construction	BH020
		6	Abandoned/Disused	BH020
		32	Navigable	BH020, BH140
hyc	Hydrological Category			
		0	Unknown	BH020, BH030, BH140
		3	Dry	BH020, BH140
		6	Non-Perennial/ Intermittent/ Fluctuating	BH140
		8	Perennial/Permanent	BH020, BH030, BH140
nam	Name			
		VLT=0-length	Null	BH030
		Character text string		BH020, BH140
		"UNK" (no name present for feature)		BH020, BH140

TABLE E-53. Hydrography Text Feature Table.

Thematic Layer: Hydrography
Coverage Name: **hydro**
Table Description: Hydrography Text Feature Table
Table Name: **hydrotxt.tft**
dq Layer Number: 3

```
{Header length}L;
Hydrography Text Feature Table;-;
id=I,1,P,Row Identifier,-,-,-,:
f_code=T,5,N,FACC Feature Code,char.vdt,f_code1.tti,-,:
symbol_id=S,1,N,Symbol Identification,-,-,-,:
tile_id=S,1,N,Tile Reference ID,-,tile1_id.tti,-,:
txt_id=I,1,N,Text Primitive ID,-,txt1_id.tti,-,:;
```

Column	Description	Value	Value Meaning
id	Row Identifier	Sequential beginning with 1	
f_code	FACC Feature Code		
		ZD040	Named Location
		ZD045	Text Description
symbol_id	Symbol Identification (Refer to Symbol Related Attribute Table for selection of values)		

TABLE E-54. Hydrography Feature Class Attribute Table.

Thematic Layer: Hydrography
Coverage Name: **hydro**
Table Description: Hydrography Feature Class Attribute Table
Table Name: **fca**
dq Layer Number: 3

{Header length}L; Hydrography Feature Class Attribute Table;-; id=I,1,P,Row Identifier,-,-,-,: fclass=T,8,U,Feature Class Name,-,-,-,: type=T,1,N,Feature Type,char.vdt,-,-,: descr=T,*,N,Description,-,-,-,:;

1	arrowp	P	Arrow Points
:	:	:	:
n	n	n	n

Column	**Description**	**Value**	**Value Meaning**	**Applicable fclass for Each Attribute Value**
id	Row Identifier	Sequential beginning with 1		
fclass	Feature Class Name			
		arrowp		
		miscp		
		wellsprp		
		aquedctl		
		daml		
		inshorel		
		miscl		
		seastrtl		
		watrcrsl		
		coasta		
		dama		
		inunda		
		lakeresa		
		locka		
		misca		
		seastrta		
		watrcrsa		
		hydrotxt		
type	Feature Type			
		P	Point/Node Feature	arrowp, miscp, wellsprp
		L	Line Feature	aquedctl, daml, inshorel, miscl, seastrtl,watrcrsl
		A	Area Feature	coasta, dama, inunda, lakeresa, locka, misca, seastrta, watrcrsa
		T	Text Feature	hydrotxt

TABLE E-54. Hydrography Feature Class Attribute Table (Continued).

descr	Description		
		Arrow Points	arrowp
		Miscellaneous Points	miscp
		Well Spring Points	wellsprp
		Aqueduct Lines	aquedctl
		Dam Lines	daml
		Inland Shoreline Lines	inshorel
		Miscellaneous Lines	miscl
		Sea Structure Lines	seastrtl
		Water Course Lines	watrcrsl
		Coast Areas	coasta
		Dam Areas	dama
		Inundation Areas	inunda
		Lake Reservoir Areas	lakeresa
		Lock Areas	locka
		Miscellaneous Areas	misca
		Sea Structure Areas	seastrta
		Water Course Areas	watrcrsa
		Hydrography Coverage Text	hydrotxt

TABLE E-55. Hydrography Character Value Description Table.

Thematic Layer: Hydrography
Coverage Name: **hydro**
Table Description: Hydrography Character Value Description Table
Table Name: **char.vdt**
dq Layer Number: 3

```
{Header length}L;
Hydrography Character Value Description Table;-;
id=I,1,P,Row Identifier,-,-,-,:
table=T,12,N,Name of the Feature Table,-,-,-,:
attribute=T,6,N,Column Name,-,-,-,:
value=T,5,N,Unique Value of Attribute,-,-,-,:
description=T,26,N,Description of Value,-,-,-,:;
```

1	arrowp.pft	f_code	BG010	Current Flow
2	miscp.pft	f_code	BH165	Spillway
3	miscp.pft	f_code	BI040	Sluice Gate
4	miscp.pft	f_code	BI050	Water Intake Tower
5	wellsprp.pft	f_code	AA050	Well
6	wellsprp.pft	f_code	BH010	Aqueduct
7	wellsprp.pft	f_code	BH170	Spring/Water-Hole
8	wellsprp.pft	nam	UNK	No name present
9	dqpoint.pft	f_code	BG010	Current Flow
10	dqpoint.pft	f_code	BH165	Spillway
11	dqpoint.pft	f_code	BI040	Sluice Gate
12	dqpoint.pft	f_code	BI050	Water Intake Tower
13	dqpoint.pft	f_code	AA050	Well
14	dqpoint.pft	f_code	BH010	Aqueduct
15	dqpoint.pft	f_code	BH170	Spring/Water-Hole
16	dqpoint.pft	f_code	ZD045	Text Description
17	aquedctl.lft	f_code	BH010	Aqueduct
18	aquedctl.lft	nam	UNK	No name present
19	daml.lft	f_code	BI020	Dam/Weir
20	daml.lft	nam	UNK	No name present
21	inshorel.lft	f_code	BH210	Inland Shoreline
22	miscl.lft	f_code	AQ065	Culvert
23	miscl.lft	f_code	BH110	Penstock
24	miscl.lft	f_code	BH165	Spillway
25	miscl.lft	f_code	BI040	Sluice Gate
26	seastrtl.lft	f_code	BB040	Breakwater/Groyne
27	seastrtl.lft	f_code	BB140	Jetty
28	seastrtl.lft	f_code	BB230	Seawall
29	watrcrsl.lft	f_code	BH020	Canal
30	watrcrsl.lft	f_code	BH030	Ditch
31	watrcrsl.lft	f_code	BH140	River/Stream
32	watrcrsl.lft	nam	UNK	No name present
33	dqline.lft	f_code	BH010	Aqueduct
34	dqline.lft	f_code	BI020	Dam/Weir
35	dqline.lft	f_code	BH210	Inland Shoreline
36	dqline.lft	f_code	AQ065	Culvert
37	dqline.lft	f_code	BH110	Penstock
38	dqline.lft	f_code	BH165	Spillway

TABLE E-55. Hydrography Character Value Description Table (Continued).

39	dqline.lft	f_code	BI040	Sluice Gate
40	dqline.lft	f_code	BB040	Breakwater/Groyne
41	dqline.lft	f_code	BB140	Jetty
42	dqline.lft	f_code	BB230	Seawall
43	dqline.lft	f_code	BH020	Canal
44	dqline.lft	f_code	BH030	Ditch
45	dqline.lft	f_code	BH140	River/Stream
46	dqline.lft	f_code	ZD045	Text Description
47	coasta.aft	f_code	BA040	Water (Except Inland)
48	coasta.aft	nam	UNK	No name present
49	dama.aft	f_code	BI020	Dam/Weir
50	dama.aft	nam	UNK	No name present
51	inunda.aft	f_code	BH090	Land Subject to Inundation
52	lakeresa.aft	f_code	BH080	Lake/Pond
53	lakeresa.aft	f_code	BH100	Moat
54	lakeresa.aft	f_code	BH130	Reservoir
55	lakeresa.aft	nam	UNK	No name present
56	locka.aft	f_code	BI030	Lock
57	locka.aft	nam	UNK	No name present
58	misca.aft	f_code	AQ065	Culvert
59	misca.aft	f_code	BH165	Spillway
60	misca.aft	f_code	BI050	Water Intake Tower
61	seastrta.aft	f_code	BB040	Breakwater/Groyne
62	seastrta.aft	f_code	BB140	Jetty
63	watrcrsa.aft	f_code	BH020	Canal
64	watrcrsa.aft	f_code	BH030	Ditch
65	watrcrsa.aft	f_code	BH140	River/Stream
66	watrcrsa.aft	nam	UNK	No name present
67	dqarea.aft	f_code	BA040	Water (Except Inland)
68	dqarea.aft	f_code	BI020	Dam/Weir
69	dqarea.aft	f_code	BH090	Land Subject to Inundation
70	dqarea.aft	f_code	BH080	Lake/Pond
71	dqarea.aft	f_code	BH100	Moat
72	dqarea.aft	f_code	BH130	Reservoir
73	dqarea.aft	f_code	BI030	Lock
74	dqarea.aft	f_code	AQ065	Culvert
75	dqarea.aft	f_code	BH165	Spillway
76	dqarea.aft	f_code	BI050	Water Intake Tower
77	dqarea.aft	f_code	BB040	Breakwater/Groyne
78	dqarea.aft	f_code	BB140	Jetty
79	dqarea.aft	f_code	BH020	Canal
80	dqarea.aft	f_code	BH030	Ditch
81	dqarea.aft	f_code	BH140	River/Stream
82	dqarea.aft	f_code	ZD045	Text Description
83	hydrotxt.tft	f_code	ZD040	Named Location
84	hydrotxt.tft	f_code	ZD045	Text Description
85	fca	type	P	Point/Node Feature
86	fca	type	L	Line Feature
87	fca	type	A	Area Feature
88	fca	type	T	Text Feature

TABLE E-56. Hydrography Integer Value Description Table.

Thematic Layer: Hydrography
Coverage Name: **hydro**
Table Description: Hydrography Integer Value Description Table
Table Name: **int.vdt**
dq Layer Number: 3

{Header length}L;
Hydrography Integer Value Description Table;-;
id=I,1,P,Row Identifier,-,-,-,:
table=T,12,N,Name of the Feature Table,-,-,-,:
attribute=T,3,N,Column Name,-,-,-,:
value=S,1,N,Unique Value of Attribute,-,-,-,:
description=T,60,N,Description of Value,-,-,-,:;

1	arrowp.pft	cur	0	Unknown
2	arrowp.pft	cur	2	Flood
3	arrowp.pft	cur	3	General Flow
4	arrowp.pft	cur	4	River Flow
5	arrowp.pft	cur	5	Ocean Flow
6	arrowp.pft	sgc	0	Unknown
7	miscp.pft	len	0	Unknown
8	miscp.pft	wid	0	Unknown
9	wellsprp.pft	exs	0	Unknown
10	wellsprp.pft	exs	3	Reported
11	wellsprp.pft	exs	6	Abandoned/Disused
12	wellsprp.pft	exs	28	Operational
13	wellsprp.pft	hyc	0	Unknown
14	wellsprp.pft	hyc	2	Not Applicable
15	wellsprp.pft	hyc	3	Dry
16	wellsprp.pft	hyc	6	Non-Perennial/Intermittent/Fluctuating
17	wellsprp.pft	hyc	8	Perennial/Permanent
18	wellsprp.pft	loc	0	Unknown
19	wellsprp.pft	loc	4	Below Surface/Submerged/Underground
20	wellsprp.pft	loc	8	On Ground Surface
21	wellsprp.pft	loc	25	Suspended/Elevated Above Ground or Water Surface
22	wellsprp.pft	pro	0	Unknown
23	wellsprp.pft	pro	116	Water
24	wellsprp.pft	scc	0	Unknown
25	wellsprp.pft	scc	1	Alkaline
26	wellsprp.pft	scc	2	Not Applicable
27	wellsprp.pft	scc	4	Mineral
28	wellsprp.pft	scc	9	Freshwater/Potable
29	wellsprp.pft	swt	0	Unknown
30	wellsprp.pft	swt	1	Geyser
31	wellsprp.pft	swt	4	Artesian
32	wellsprp.pft	swt	5	Water Hole
33	wellsprp.pft	swt	6	Walled-in Spring
34	wellsprp.pft	tra	0	Unknown
35	wellsprp.pft	tra	1	Traversability
36	wellsprp.pft	tra	2	Non-Traversable

TABLE E-56. Hydrography Integer Value Description Table (Continued).

37	wellsprp.pft	wft	0	Unknown
38	wellsprp.pft	wft	1	Waterhole
39	wellsprp.pft	wft	2	Walled-in Spring
40	wellsprp.pft	wft	3	Artesian Well
41	wellsprp.pft	wft	4	Fountain
42	wellsprp.pft	wft	5	Dug or Drilled Well
43	aquedctl.lft	atc	0	Unknown
44	aquedctl.lft	atc	1	Qanat/Kanat/Karez Shaft
45	aquedctl.lft	atc	2	Other
46	aquedctl.lft	atc	3	Underground Aqueduct
47	aquedctl.lft	exs	0	Unknown
48	aquedctl.lft	exs	5	Under Construction
49	aquedctl.lft	exs	6	Abandoned/Disused
50	aquedctl.lft	exs	28	Operational
51	aquedctl.lft	loc	0	Unknown
52	aquedctl.lft	loc	4	Below Surface/Submerged/Underground
53	aquedctl.lft	loc	8	On Ground Surface
54	aquedctl.lft	loc	25	Suspended/Elevated Above Ground or Water Surface
55	aquedctl.lft	tra	0	Unknown
56	aquedctl.lft	tra	1	Traversability
57	aquedctl.lft	tra	2	Non-Traversable
58	aquedctl.lft	wid	0	Unknown
59	daml.lft	exs	0	Unknown
60	daml.lft	exs	5	Under Construction
61	daml.lft	exs	28	Operational
62	daml.lft	mcc	0	Unknown
63	daml.lft	mcc	20	Composition
64	daml.lft	mcc	21	Concrete
65	daml.lft	mcc	30	Earthen
66	daml.lft	mcc	62	Masonry (Brick/Stone)
67	daml.lft	mcc	999	Other
68	daml.lft	tuc	0	Unknown
69	daml.lft	tuc	1	Both Road and Railroad
70	daml.lft	tuc	3	Railroad
71	daml.lft	tuc	4	Road
72	daml.lft	tuc	6	Street
73	daml.lft	tuc	35	No Transport Use
74	daml.lft	wid	0	Unknown
75	inshorel.lft	ahc	0	Unknown
76	inshorel.lft	ahc	1	Perennial
77	inshorel.lft	ahc	2	Intermittent
78	inshorel.lft	ahc	3	Ephemeral
79	inshorel.lft	exs	0	Unknown
80	inshorel.lft	exs	44	Approximate/About
81	inshorel.lft	exs	45	Natural
82	inshorel.lft	exs	46	Man-made
83	inshorel.lft	slt	0	Unknown
84	inshorel.lft	slt	6	Mangrove/Nipa
85	inshorel.lft	slt	8	Marsh, Swamp

TABLE E-56. Hydrography Integer Value Description Table (Continued).

86	inshorel.lft	slt	10	Rocky
87	inshorel.lft	slt	11	Rubble
88	inshorel.lft	slt	13	Sandy
89	inshorel.lft	slt	14	Stony, Shingly
90	inshorel.lft	slt	15	Other
91	miscl.lft	loc	0	Unknown
92	miscl.lft	loc	4	Below Surface/Submerged/Underground
93	miscl.lft	loc	8	On Ground Surface
94	miscl.lft	loc	25	Suspended/Elevated Above Ground or Water Surface
95	seastrtl.lft	vrr	0	Unknown
96	seastrtl.lft	vrr	1	Above Surface/Does not cover (At High Water)
97	seastrtl.lft	wid	0	Unknown
98	watrcrsl.lft	acc	0	Unknown
99	watrcrsl.lft	acc	1	Accurate
100	watrcrsl.lft	acc	2	Approximate
101	watrcrsl.lft	exs	0	Unknown
102	watrcrsl.lft	exs	5	Under Construction
103	watrcrsl.lft	exs	6	Abandoned/Disused
104	watrcrsl.lft	exs	30	Not Isolated
105	watrcrsl.lft	exs	31	Isolated
106	watrcrsl.lft	exs	32	Navigable
107	watrcrsl.lft	hyc	0	Unknown
108	watrcrsl.lft	hyc	3	Dry
109	watrcrsl.lft	hyc	6	Non-Perennial/Intermittent/Fluctuating
110	watrcrsl.lft	hyc	8	Perennial/Permanent
111	watrcrsl.lft	wid	0	Unknown
112	dama.aft	mcc	0	Unknown
113	dama.aft	mcc	20	Composition
114	dama.aft	mcc	21	Concrete
115	dama.aft	mcc	30	Earthen
116	dama.aft	mcc	62	Masonry (Brick/Stone)
117	dama.aft	mcc	999	Other
118	dama.aft	tuc	0	Unknown
119	dama.aft	tuc	1	Both Road and Railroad
120	dama.aft	tuc	3	Railroad
121	dama.aft	tuc	4	Road
122	dama.aft	tuc	6	Street
123	dama.aft	tuc	35	No Transport Use
124	dama.aft	tuc	999	Other
125	inunda.aft	ara	0	Unknown
126	inunda.aft	hoc	0	Unknown
127	inunda.aft	hoc	1	Controlled
128	inunda.aft	hoc	5	Natural
129	lakeresa.aft	ara	0	Unknown
130	lakeresa.aft	exs	0	Unknown
131	lakeresa.aft	exs	1	Definite
132	lakeresa.aft	exs	5	Under Construction

TABLE E-56. Hydrography Integer Value Description Table (Continued).

133	lakeresa.aft	exs	28	Operational
134	lakeresa.aft	hyc	0	Unknown
135	lakeresa.aft	hyc	3	Dry
136	lakeresa.aft	hyc	6	Non-Perennial/Intermittent/Fluctuating
137	lakeresa.aft	hyc	8	Perennial/Permanent
138	lakeresa.aft	scc	0	Unknown
139	lakeresa.aft	scc	9	Freshwater/Potable
140	lakeresa.aft	scc	10	Salt
141	lakeresa.aft	zv2	9999	Unknown
142	locka.aft	exs	0	Unknown
143	locka.aft	exs	5	Under Construction
144	locka.aft	exs	28	Operational
145	seastrta.aft	vrr	0	Unknown
146	seastrta.aft	vrr	1	Above Surface/Does not cover (At High Water)
147	watrcrsa.aft	acc	0	Unknown
148	watrcrsa.aft	acc	1	Accurate
149	watrcrsa.aft	acc	2	Approximate
150	watrcrsa.aft	exs	0	Unknown
151	watrcrsa.aft	exs	5	Under Construction
152	watrcrsa.aft	exs	6	Abandoned/Disused
153	watrcrsa.aft	exs	32	Navigable
154	watrcrsa.aft	hyc	0	Unknown
155	watrcrsa.aft	hyc	3	Dry
156	watrcrsa.aft	hyc	6	Non-Perennial/Intermittent/Fluctuating
157	watrcrsa.aft	hyc	8	Perennial/Permanent
158	symbol.rat	fon	1	Machine Default
159	symbol.rat	sty	1	Kern
160	symbol.rat	sty	2	Proportional
161	symbol.rat	sty	3	Constant
162	symbol.rat	col	1	Black
163	symbol.rat	col	4	Blue
164	symbol.rat	col	9	Red-Brown
165	symbol.rat	col	12	Magenta

E.3.6 Industry Coverage.

TABLE E-57. Content and format for Industry Coverage Feature Class Schema Table.

Thematic Layer: Industry
Coverage Name: **ind**
Table Description: Industry Feature Class Schema Table
Table Name: **fcs**
dq Layer Number: 4

```
{Header length}L;
Industry Feature Class Schema Table;-;
id=I,1,P,Row Identifier,-,-,-,:
feature_class=T,8,N,Name of Feature Class,-,-,-,:
table1=T,12,N,First Table,-,-,-,:
table1_key=T,16,N,Column Name in First Table,-,-,-,:
table2=T,12,N,Second Table,-,-,-,:
table2_key=T,16,N,Column Name in Second Table,-,-,-,:;
```

1	bldindp	bldindp.pft	end_id	end	id
2	bldindp	end	id	bldindp.pft	end_id
3	cisternp	cisternp.pft	end_id	end	id
4	cisternp	end	id	cisternp.pft	end_id
5	extractp	extractp.pft	end_id	end	id
6	extractp	end	id	extractp.pft	end_id
7	obstrp	obstrp.pft	end_id	end	id
8	obstrp	end	id	obstrp.pft	end_id
9	rigwellp	rigwellp.pft	end_id	end	id
10	rigwellp	end	id	rigwellp.pft	end_id
11	storagep	storagep.pft	end_id	end	id
12	storagep	end	id	storagep.pft	end_id
13	bldindl	bldindl.lft	id	bldindl.ljt	bldindl.lft_id
14	bldindl	bldindl.ljt	edg_id	edg	id
15	bldindl	edg	id	bldindl.ljt	edg_id
16	bldindl	bldindl.ljt	bldindl.lft_id	bldindl.lft	id
17	extractl	extractl.lft	id	extractl.ljt	extractl.lft_id
18	extractl	extractl.ljt	edg_id	edg	id
19	extractl	edg	id	extractl.ljt	edg_id
20	extractl	extractl.ljt	extractl.lft_id	extractl.lft	id
21	indl	indl.lft	id	indl.ljt	indl.lft_id
22	indl	indl.ljt	edg_id	edg	id
23	indl	edg	id	indl.ljt	edg_id
24	indl	indl.ljt	indl.lft_id	indl.lft	id
25	bldinda	bldinda.aft	id	bldinda.ajt	bldinda.aft_id
26	bldinda	bldinda.ajt	fac_id	fac	id
27	bldinda	fac	id	bldinda.ajt	fac_id
28	bldinda	bldinda.ajt	bldinda.aft_id	bldinda.aft	id
29	cmpxinda	cmpxinda.aft	id	cmpxinda.ajt	cmpxinda.aft_id
30	cmpxinda	cmpxinda.ajt	fac_id	fac	id
31	cmpxinda	fac	id	cmpxinda.ajt	fac_id
32	cmpxinda	cmpxinda.ajt	cmpxinda.aft_id	cmpxinda.aft	id
33	disposea	disposea.aft	id	disposea.ajt	disposea.aft_id

TABLE E-57. Content and format for Industry Coverage Feature Class Schema Table (Continued).

34	disposea	disposea.ajt	fac_id	fac	id
35	disposea	fac	id	disposea.ajt	fac_id
36	disposea	disposea.ajt	disposea.aft_id	disposea.aft	id
37	extracta	extracta.aft	id	extracta.ajt	extracta.aft_id
38	extracta	extracta.ajt	fac_id	fac	id
39	extracta	fac	id	extracta.ajt	fac_id
40	extracta	extracta.ajt	extracta.aft_id	extracta.aft	id
41	powrinda	powrinda.aft	id	powrinda.ajt	powrinda.aft_id
42	powrinda	powrinda.ajt	fac_id	fac	id
43	powrinda	fac	id	powrinda.ajt	fac_id
44	powrinda	powrinda.ajt	powrinda.aft_id	powrinda.aft	id
45	processa	processa.aft	id	processa.ajt	processa.aft_id
46	processa	processa.ajt	fac_id	fac	id
47	processa	fac	id	processa.ajt	fac_id
48	processa	processa.ajt	processa.aft_id	processa.aft	id
49	storagea	storagea.aft	id	storagea.ajt	storagea.aft_id
50	storagea	storagea.ajt	fac_id	fac	id
51	storagea	fac	id	storagea.ajt	fac_id
52	storagea	storagea.ajt	storagea.aft_id	storagea.aft	id
53	dqpoint	dqpoint.pft	end_id	end	id
54	dqpoint	end	id	dqpoint.pft	end_id
55	dqpoint	dqpoint.pft	dqdescr_id	dqdescr.rat	id
56	dqline	dqline.lft	id	dqline.ljt	dqline.lft_id
57	dqline	dqline.ljt	edg_id	edg	id
58	dqline	edg	id	dqline.ljt	edg_id
59	dqline	dqline.ljt	dqline.lft_id	dqline.lft	id
60	dqline	dqline.lft	dqdescr_id	dqdescr.rat	id
61	dqarea	dqarea.aft	id	dqarea.ajt	dqarea.aft_id
62	dqarea	dqarea.ajt	fac_id	fac	id
63	dqarea	fac	id	dqarea.ajt	fac_id
64	dqarea	dqarea.ajt	dqarea.aft_id	dqarea.aft	id
65	dqarea	dqarea.aft	dqdescr_id	dqdescr.rat	id
66	dqtext	dqtext.tft	txt_id	txt	id
67	dqtext	txt	id	dqtext.tft	txt_id
68	indtxt	indtxt.tft	txt_id	txt	id
69	indtxt	txt	id	indtxt.tft	txt_id
70	indtxt	indtxt.tft	symbol_id	symbol.rat	symbol_id

TABLE E-58. Buildings Point Feature Table.

Thematic Layer: Industry
Coverage Name: **ind**
Table Description: Buildings Point Feature Table
Table Name: **bldindp.pft**
dq Layer Number: 4

```
{Header length}L;
Buildings Point Feature Table;-;
id=I,1,P,Row Identifier,-,-,-,:
f_code=T,5,N,FACC Feature Code,char.vdt,-,-,:
ara=S,1,N,Area Coverage Attribute (sq. meters),int.vdt,-,-,:
arh=S,1,N,Area Coverage Attribute Hectares,-,-,-,:
bfc=S,1,N,Building Function Category,int.vdt,-,-,:
exs=S,1,N,Existence Category,int.vdt,-,-,:
hgt=S,1,N,Height Above Surface Level (meters),int.vdt,-,-,:
idn=T,*,N,Identification Number,char.vdt,-,-,:
len=S,1,N,Length (meters),int.vdt,-,-,:
nam=T,*,N,Name,char.vdt,-,-,:
pro=S,1,N,Product Category,int.vdt,-,-,:
ssr=S,1,N,Structure Shape of Roof,int.vdt,-,-,:
use=S,1,N,Usage,int.vdt,-,-,:
wid=S,1,N,Width (meters),int.vdt,-,-,:
tile_id=S,1,N,Tile Reference ID,-,tile1_id.pti,-,:
end_id=I,1,N,Entity Node Primitive ID,-,end1_id.pti,-,:;
```

Column	Description	Value	Value Meaning	Applicable f_code for Each Attribute Value
id	Row Identifier	Sequential beginning with 1		
f_code	FACC Feature Code			
		AL015	Building	
ara	Area Coverage Attribute (sq. meters)			
		-32768	Null	AL015 **arh**>0
		0	Unknown	AL015 **arh**=-32768
		>0	Actual Value	AL015 **arh**=-32768
arh	Area Coverage Attribute Hectares			
		-32768	Null	AL015 **ara**>=0
		>0	Actual Value	AL015 **ara**=-32768
bfc	Building Function Category			
		0	Unknown	AL015
		1	Fabrication Structures	AL015
		21	Garage	AL015
		22	Watermill/Gristmill	AL015
		23	Wind Tunnel	AL015
		24	Warehouse	AL015
		25	Roundhouse	AL015

TABLE E-58. Buildings Point Feature Table (Continued).

	26	Railroad Storage/Repair Facility	AL015
	27	Depot Terminal	AL015
	29	Aircraft Maintenance Shop	AL015
	30	Hangar	AL015
	40	Telephone Switching Station	AL015
	54	Service/Refueling Station	AL015
	59	Research and Development Lab/Research Facility	AL015
	71	Oil Mill (Vegetable)	AL015
	72	Aerator	AL015
	73	Carpentry	AL015
	74	Saw-mill	AL015
	75	Kiln/Oven	AL015
	76	Signal Box/Railway Signalman's House	AL015
	81	Maritime Station	AL015
	83	Power Generation	AL015
	84	Filtration Plant	AL015
	85	News Paper Plant	AL015
	86	Telephone Exchange (Main)	AL015
	89	Processing/Treatment	AL015
	90	Pumphouse	AL015
	94	Railroad Station	AL015
	102	Oil/Gas Facilities Building	AL015
	104	Paper/Pulp Mill	AL015
	110	Shipyard	AL015
	112	Steel Mill	AL015
	113	Weigh Scale (Highway)	AL015
	116	Factory	AL015
	120	Automobile Plant	AL015
	124	Repair Facility	AL015
	125	Barn/Machinery Shed	AL015
	999	Other	AL015
exs	Existence Category		
	0	Unknown	AL015
	5	Under Construction	AL015
	6	Abandoned/Disused	AL015
	7	Destroyed	AL015
	28	Operational	AL015
hgt	Height Above Surface Level (meters)		
	0	Unknown	AL015
	>0	Actual Value	AL015

TABLE E-58. Buildings Point Feature Table (Continued).

idn	Identification Number			
		0	Unknown	AL015
		Any		AL015
len	Length (meters)			
		0	Unknown	AL015
		>0	Actual Value	AL015
nam	Name			
		Character text string		AL015
		"UNK" (no name present for feature)		AL015
pro	Product Category			
		0	Unknown	AL015
		1	Aircraft	AL015
		2	Aluminum	AL015
		3	Ammunition	AL015
		4	Ash	AL015
		5	Asphalt	AL015
		6	Basalt	AL015
		7	Bedrock	AL015
		8	Boulders	AL015
		9	Brick	AL015
		11	Cement	AL015
		12	Chalk	AL015
		13	Chemical	AL015
		14	Cinders	AL015
		16	Clay	AL015
		17	Coal	AL015
		18	Cobble	AL015
		19	Coke	AL015
		20	Composition	AL015
		21	Concrete	AL015
		22	Conglomerate	AL015
		23	Copper	AL015
		24	Coral	AL015
		26	Desalinated Water	AL015
		27	Diamonds	AL015
		29	Dolomite	AL015
		30	Earthen	AL015
		31	Electric	AL015
		32	Eroded Lands	AL015
		33	Explosives	AL015
		35	Food	AL015
		37	Fucus	AL015
		38	Gas	AL015
		39	Gasoline	AL015
		40	Glass	AL015
		42	Gold	AL015

TABLE E-58. Buildings Point Feature Table (Continued).

43	Granite	AL015
45	Grass/Thatch	AL015
46	Gravel	AL015
48	Ground	AL015
50	Heat	AL015
51	Iron	AL015
52	Lava	AL015
54	Lead	AL015
56	Lumber	AL015
57	Macadam	AL015
59	Manganese	AL015
60	Marble	AL015
61	Marl	AL015
62	Masonry (Brick/Stone)	AL015
63	Mattes	AL015
64	Metal	AL015
65	Mud	AL015
67	Oil	AL015
71	Paper	AL015
72	Part Metal	AL015
73	Pebbles	AL015
74	Plastic	AL015
77	Prestressed Concrete	AL015
79	Pumice	AL015
80	Quartz	AL015
82	Radioactive Material	AL015
83	Reinforced Concrete	AL015
84	Rock/Rocky	AL015
85	Rubber	AL015
86	Rubble	AL015
87	Salt	AL015
88	Sand	AL015
89	Sandstone	AL015
90	Schist	AL015
94	Seaweed	AL015
95	Sewage	AL015
98	Shingle	AL015
99	Silt	AL015
100	Silver	AL015
101	Slag	AL015
103	Snow/Ice	AL015
104	Soil	AL015
107	Steel	AL015
108	Stone	AL015
109	Sugar	AL015
110	Travertin	AL015
111	Tufa	AL015
112	Uranium	AL015
113	Vegetation Products	AL015

TABLE E-58. Buildings Point Feature Table (Continued).

	114	Volcanic	AL015
	115	Volcanic Ash	AL015
	116	Water	AL015
	117	Wood	AL015
	118	Zinc	AL015
	119	Bauxite	AL015
	120	Bananas	AL015
	121	Cotton	AL015
	122	Bamboo	AL015
	123	Coffee	AL015
	124	Common fruit and/or nuts	AL015
	125	Palms	AL015
	126	Palmetto	AL015
	127	Tailings	AL015
	128	Refuse	AL015
	129	Tobacco	AL015
	130	None	AL015
	131	Personnel	AL015
	133	Telecommunications	AL015
	134	Fish	AL015
	997	Not Applicable	AL015
	998	Multiple	AL015
	999	Other	AL015
ssr	Structure Shape of Roof		
	0	Unknown	AL015
	6	Conical/Peaked/NUN	AL015
	38	Curved/Round (Quonset)	AL015
	40	Dome	AL015
	41	Flat	AL015
	42	Gable (Pitched)	AL015
	47	Sawtooth	AL015
	50	With Monitor	AL015
	55	Flat with Monitor	AL015
	64	Gable with Monitor	AL015
	77	With Cupola	AL015
	78	With Turret	AL015
	79	With Tower	AL015
	999	Other	AL015
use	Usage		
	0	Unknown	AL015
	4	National	AL015
	5	State	AL015
	6	Private	AL015
	8	Military	AL015
	22	Joint Military/Civilian	AL015
	23	International	AL015

TABLE E-58. Buildings Point Feature Table (Continued).

		43	Institutional	AL015
		49	Civilian/Public	AL015
		120	Recreational	AL015
		130	Transportation	AL015
		991	Not Applicable	AL015
		999	Other	AL015
wid	Width (meters)			
		0	Unknown	AL015
		>0	Actual Value	AL015

TABLE E-59. Cistern Point Feature Table.

Thematic Layer: Industry
Coverage Name: **ind**
Table Description: Cistern Point Feature Table
Table Name: **cisternp.pft**
dq Layer Number: 4

```
{Header length}L;
Cistern Point Feature Table;-;
id=I,1,P,Row Identifier,-,-,-,:
f_code=T,5,N,FACC Feature Code,char.vdt,-,-,:
tile_id=S,1,N,Tile Reference ID,-,tile2_id.pti,-,:
end_id=I,1,N,Entity Node Primitive ID,-,end2_id.pti,-,:;
```

Column	**Description**	**Value**	**Value Meaning**	**Applicable f_code for Each Attribute Value**
id	Row Identifier	Sequential beginning with 1		
f_code	FACC Feature Code	BI010	Cistern	

TABLE E-60. Extraction Point Feature Table.

Thematic Layer: Industry
Coverage Name; **ind**
Table Description: Extraction Point Feature Table
Table Name: **extractp.pft**
dq Layer Number: 4

```
{Header length}L;
Extraction Point Feature Table;-;
id=I,1,P,Row Identifier,-,-,-,:
f_code=T,5,N,FACC Feature Code,char.vdt,f_code3.pti,-,:
ara=S,1,N,Area Coverage Attribute (sq. meters),int.vdt,-,-,:
arh=S,1,N,Area Coverage Attribute Hectares,-,-,-,:
exs=S,1,N,Existence Category,int.vdt,-,-,:
min=S,1,N,Mining Category,int.vdt,-,-,:
nam=T,*,N,Name,char.vdt,-,-,:
pro=S,1,N,Product Category,int.vdt,-,-,:
wid=S,1,N,Width (meters),int.vdt,-,-,:
tile_id=S,1,N,Tile Reference ID,-,tile3_id.pti,-,:
end_id=I,1,N,Entity Node Primitive ID,-,end3_id.pti,-,:;
```

Column	**Description**	**Value**	**Value Meaning**	**Applicable f_code for Each Attribute Value**
id	Row Identifier	Sequential beginning with 1		
f_code	FACC Feature Code			
		AA010	Mine	
		AA012	Quarry	
ara	Area Coverage Attribute (sq. meters)			
		-32768	Null	AA010 **arh**>0, AA012 **arh**>0
		0	Unknown	AA010 **arh**=-32768, AA012 **arh**=-32768
		>0	Actual Value	AA010 **arh**=-32768, AA012 **arh**=-32768
arh	Area Coverage Attribute Hectares			
		-32768	Null	AA010 **ara**>=0, AA012 **ara**>=0
		>0	Actual Value	AA010 **ara**=-32768, AA012 **ara**=-32768
exs	Existence Category			
		0	Unknown	AA010, AA012
		3	Reported	AA010, AA012
		6	Abandoned/Disused	AA010, AA012
		28	Operational	AA010, AA012

TABLE E-60. Extraction Point Feature Table (Continued).

min	Mining Category			
		0	Unknown	AA010, AA012
		2	Horizontal Shaft	AA010, AA012
		3	Open Pit	AA010, AA012
		4	Placer	AA010, AA012
		5	Prospect	AA010, AA012
		6	Strip	AA010, AA012
		7	Vertical Shaft	AA010, AA012
		8	Peat Cuttings	AA010, AA012
nam	Name			
		Character text string		AA010, AA012
		"UNK" (no name present for feature)		AA010, AA012
pro	Product Category			
		0	Unknown	AA010, AA012
		16	Clay	AA010, AA012
		17	Coal	AA010, AA012
		23	Copper	AA010, AA012
		42	Gold	AA010, AA012
		46	Gravel	AA010, AA012
		51	Iron	AA010, AA012
		54	Lead	AA010, AA012
		84	Rock/Rocky	AA010, AA012
		87	Salt	AA010, AA012
		88	Sand	AA010, AA012
		100	Silver	AA010, AA012
		112	Uranium	AA010, AA012
		118	Zinc	AA010, AA012
		119	Bauxite	AA010, AA012
		999	Other	AA010, AA012
wid	Width (meters)			
		0	Unknown	AA010, AA012
		>0	Actual Value	AA010, AA012

TABLE E-61. Obstruction Point Feature Table.

Thematic Layer: Industry
Coverage Name: **ind**
Table Description: Obstruction Point Feature Table
Table Name: **obstrp.pft**
dq Layer Number: 4

```
{Header length}L;
Obstruction Point Feature Table;-;
id=I,1,P,Row Identifier,-,-,-,:
f_code=T,5,N,FACC Feature Code,char.vdt,f_code4.pti,-,:
hgt=S,1,N,Height Above Surface Level (meters),int.vdt,-,-,:
len=S,1,N,Length (meters),int.vdt,-,-,:
ttc=S,1,N,Tower Type Category,int.vdt,-,-,:
use=S,1,N,Usage,int.vdt,-,-,:
tile_id=S,1,N,Tile Reference ID,-,tile4_id.pti,-,:
end_id=I,1,N,Entity Node Primitive ID,-,end4_id.pti,-,:;
```

Column	Description	Value	Value Meaning	Applicable f_code for Each Attribute Value
id	Row Identifier	Sequential beginning with 1		
f_code	FACC Feature Code			
		AF010	Chimney/Smokestack	
		AF030	Cooling Tower	
		AF040	Crane	
		AF070	Flare Pipe	
		AJ050	Windmill	
		AL240	Tower (Non-Communication)	
hgt	Height Above Surface Level (meters)			
		-32768	Null	AJ050
		0	Unknown	AF010, AF030, AF040, AF070, AL240
		>0	Actual Value	AF010, AF030, AF040, AF070, AL240
len	Length (meters)			
		-32768	Null	AF070, AJ050
		0	Unknown	AF010, AF030, AF040, AL240
		>0	Actual Value	AF010, AF030, AF040, AL240
ttc	Tower Type Category			
		-32768	Null	AF010, AF030, AF040, AF070, AJ050
		0	Unknown	AL240
		1	Bridge	AL240
		2	Observation/Lookout	AL240
		3	Other	AL240
		4	Undefined	AL240

TABLE E-61. Obstruction Point Feature Table (Continued).

use	Usage	-32768	Null	AF010, AF030, AF040, AF070, AJ050
		0	Unknown	AL240
		8	Military	AL240
		22	Joint Military/Civilian	AL240
		49	Civilian/Public	AL240

TABLE E-62. Rig Well Point Feature Table.

Thematic Layer: Industry
Coverage Name; **ind**
Table Description: Rig Well Point Feature Table
Table Name: **rigwellp.pft**
dq Layer Number: 4

```
{Header length}L;
Rig Well Point Feature Table;-;
id=I,1,P,Row Identifier,-,-,-,:
f_code=T,5,N,FACC Feature Code,char.vdt,f_code5.pti,-,:
exs=S,1,N,Existence Category,int.vdt,-,-,:
hgt=S,1,N,Height Above Surface Level (meters),int.vdt,-,-,:
loc=S,1,N,Location Category,int.vdt,-,-,:
nam=T,*,N,Name,char.vdt,-,-,:
pro=S,1,N,Product Category,int.vdt,-,-,:
tile_id=S,1,N,Tile Reference ID,-,tile5_id.pti,-,:
end_id=I,1,N,Entity Node Primitive ID,-,end5_id.pti,-,:;
```

Column	**Description**	**Value**	**Value Meaning**	**Applicable f_code for Each Attribute Value**
id	Row Identifier	Sequential beginning with 1		
f_code	FACC Feature Code			
		AA040	Rig/Superstructure	
		AA050	Well	
		AC020	Catalytic Cracker	
exs	Existence Category			
		-32768	Null	AA040, AC020
		0	Unknown	AA050
		3	Reported	AA050
		6	Abandoned/Disused	AA050
		28	Operational	AA050
hgt	Height Above Surface Level (meters)			
		-32768	Null	AA050
		0	Unknown	AA040, AC020
		>0	Actual Value	AA040, AC020

TABLE E-62. Rig Well Point Feature Table (Continued).

loc	Location Category			
		-32768	Null	AA050, AC020
		0	Unknown	AA040
		22	Off Shore	AA040
		999	Other	AA040
nam	Name			
		VLT=0-length Null		AA040, AC020
		Character text string		AA050
		"UNK" (no name present for feature)		AA050
pro	Product Category			
		-32768	Null	AC020
		0	Unknown	AA040, AA050
		38	Gas	AA040, AA050
		67	Oil	AA040, AA050

TABLE E-63. Storage Point Feature Table.

Thematic Layer: Industry
Coverage Name; **ind**
Table Description: Storage Point Feature Table
Table Name: **storagep.pft**
dq Layer Number: 4

```
{Header length}L;
Storage Point Feature Table;-;
id=I,1,P,Row Identifier,-,-,-,:
f_code=T,5,N,FACC Feature Code,char.vdt,f_code6.pti,-,:
hgt=S,1,N,Height Above Surface Level (meters),int.vdt,-,-,:
idn=T,*,N,Identification Number,char.vdt,-,-,:
len=S,1,N,Length (meters),int.vdt,-,-,:
loc=S,1,N,Location Category,int.vdt,-,-,:
nam=T,*,N,Name,char.vdt,-,-,:
pro=S,1,N,Product Category,int.vdt,-,-,:
use=S,1,N,Usage,int.vdt,-,-,:
wid=S,1,N,Width (meters),int.vdt,-,-,:
tile_id=S,1,N,Tile Reference ID,-,tile6_id.pti,-,:
end_id=I,1,N,Entity Node Primitive ID,-,end6_id.pti,-,:;
```

TABLE E-63. Storage Point Feature Table (Continued).

Column	Description	Value	Value Meaning	Applicable f_code for Each Attribute Value
id	Row Identifier	Sequential beginning with 1		
f_code	FACC Feature Code			
		AM010	Depot (Storage)	
		AM020	Grain Bin/Silo	
		AM030	Grain Elevator	
		AM060	Storage Bunker/Storage Mound	
		AM070	Tank	
		AM080	Water Tower	
hgt	Height Above Surface Level (meters)			
		-32768	Null	AM010, AM020, AM060
		0	Unknown	AM030, AM070, AM080
		>0	Actual Value	AM030, AM070, AM080
idn	Identification Number			
		VLT=0-length Null		AM020, AM030, AM060, AM070, AM080
		0	Unknown	AM010
		Any		AM010
len	Length (meters)			
		-32768	Null	AM010, AM080
		0	Unknown	AM020, AM030, AM060, AM070
		>0	Actual Value	AM020, AM030, AM060, AM070
loc	Location Category			
		-32768	Null	AM020, AM030, AM060, AM080
		0	Unknown	AM010, AM070
		4	Below Surface/Submerged/ Underground	AM010, AM070
		8	On Ground Surface	AM010, AM070
		25	Suspended/Elevated Above Ground or Water Surface	AM070
nam	Name			
		Character text string		AM010, AM020, AM030, AM060, AM070, AM080
		"UNK" (no name present for feature)		AM010, AM020, AM030, AM060, AM070, AM080

TABLE E-63. Storage Point Feature Table (Continued).

pro	Product Category			
		-32768	Null	AM020, AM030, AM080
		0	Unknown	AM010, AM060, AM070
		1	Aircraft	AM010, AM060
		3	Ammunition	AM010, AM060
		13	Chemical	AM010, AM070
		17	Coal	AM010
		19	Coke	AM010
		33	Explosives	AM010, AM060
		38	Gas	AM010, AM070
		39	Gasoline	AM010, AM060, AM070
		46	Gravel	AM010
		67	Oil	AM010, AM070
		82	Radioactive Material	AM010, AM060
		87	Salt	AM010
		88	Sand	AM010
		95	Sewage	AM070
		108	Stone	AM010
		112	Uranium	AM010, AM060
		116	Water	AM010, AM070
		999	Other	AM010, AM060, AM070
use	Usage			
		0	Unknown	AM010, AM020, AM030, AM060, AM070, AM080
		8	Military	AM010, AM020, AM030, AM060 AM070, AM080
		22	Joint Military/Civilian	AM010, AM070, AM080
		25	Federal	AM070
		49	Civilian/Public	AM010, AM020, AM030, AM060, AM070, AM080
		119	Berthing of Vessels	AM010
wid	Width (meters)			
		-32768	Null	AM010, AM030, AM060, AM070
		0	Unknown	AM020, AM080
		>0	Actual Value	AM020, AM080

TABLE E-64. Buildings Line Feature Table.

Thematic Layer: Industry
Coverage Name; **ind**
Table Description: Buildings Line Feature Table
Table Name: **bldindl.lft**
dq Layer Number: 4

```
{Header length}L;
Buildings Line Feature Table;-;
id=I,1,P,Row Identifier,-,-,-,:
f_code=T,5,N,FACC Feature Code,char.vdt,-,-,:
bfc=S,1,N,Building Function Category,int.vdt,-,-,:
exs=S,1,N,Existence Category,int.vdt,-,-,:
hgt=S,1,N,Height Above Surface Level (meters),int.vdt,-,-,:
idn=T,*,N,Identification Number,char.vdt,-,-,:
nam=T,*,N,Name,char.vdt,-,-,:
pro=S,1,N,Product Category,int.vdt,-,-,:
ssr=S,1,N,Structure Shape of Roof,int.vdt,-,-,:
use=S,1,N,Usage,int.vdt,-,-,:
wid=S,1,N,Width (meters),int.vdt,-,-,:;
```

Column	Description	Value	Value Meaning	Applicable f_code for Each Attribute Value
id	Row Identifier	Sequential beginning with 1		
f_code	FACC Feature Code			
		AL015	Building	
bfc	Building Function	Category		
		0	Unknown	AL015
		1	Fabrication Structures	AL015
		21	Garage	AL015
		22	Watermill/Gristmill	AL015
		23	Wind Tunnel	AL015
		24	Warehouse	AL015
		25	Roundhouse	AL015
		26	Railroad Storage/Repair Facility	AL015
		27	Depot Terminal	AL015
		29	Aircraft Maintenance Shop	AL015
		30	Hangar	AL015
		40	Telephone Switching Station	AL015
		54	Service/Refueling Station	AL015
		59	Research and Development Lab/Research Facility	AL015
		71	Oil Mill (Vegetable)	AL015
		72	Aerator	AL015
		73	Carpentry	AL015

TABLE E-64. Buildings Line Feature Table (Continued).

		74	Saw-mill	AL015
		75	Kiln/Oven	AL015
		76	Signal Box/Railway Signalman's House	AL015
		81	Maritime Station	AL015
		83	Power Generation	AL015
		84	Filtration Plant	AL015
		85	News Paper Plant	AL015
		86	Telephone Exchange (Main)	AL015
		89	Processing/Treatment	AL015
		90	Pumphouse	AL015
		94	Railroad Station	AL015
		102	Oil/Gas Facilities Building	AL015
		104	Paper/Pulp Mill	AL015
		110	Shipyard	AL015
		112	Steel Mill	AL015
		113	Weigh Scale (Highway)	AL015
		116	Factory	AL015
		120	Automobile Plant	AL015
		124	Repair Facility	AL015
		125	Barn/Machinery Shed	AL015
		999	Other	AL015
exs	Existence Category			
		0	Unknown	AL015
		5	Under Construction	AL015
		6	Abandoned/Disused	AL015
		7	Destroyed	AL015
		28	Operational	AL015
hgt	Height Above Surface level (meters)			
		0	Unknown	AL015
		>0	Actual Value	AL015
idn	Identification Number			
		0	Unknown	AL015
		Any		AL015
nam	Name			
		Character text string		AL015
		"UNK" (no name present for feature)		AL015

TABLE E-64. Buildings Line Feature Table (Continued).

pro	Product Category		
	0	Unknown	AL015
	1	Aircraft	AL015
	2	Aluminum	AL015
	3	Ammunition	AL015
	4	Ash	AL015
	5	Asphalt	AL015
	6	Basalt	AL015
	7	Bedrock	AL015
	8	Boulders	AL015
	9	Brick	AL015
	11	Cement	AL015
	12	Chalk	AL015
	13	Chemical	AL015
	14	Cinders	AL015
	16	Clay	AL015
	17	Coal	AL015
	18	Cobble	AL015
	19	Coke	AL015
	20	Composition	AL015
	21	Concrete	AL015
	22	Conglomerate	AL015
	23	Copper	AL015
	24	Coral	AL015
	26	Desalinated Water	AL015
	27	Diamonds	AL015
	29	Dolomite	AL015
	30	Earthen	AL015
	31	Electric	AL015
	32	Eroded Lands	AL015
	33	Explosives	AL015
	35	Food	AL015
	37	Fucus	AL015
	38	Gas	AL015
	39	Gasoline	AL015
	40	Glass	AL015
	42	Gold	AL015
	43	Granite	AL015
	45	Grass/Thatch	AL015
	46	Gravel	AL015
	48	Ground	AL015
	50	Heat	AL015
	51	Iron	AL015
	52	Lava	AL015
	54	Lead	AL015
	56	Lumber	AL015
	57	Macadam	AL015
	59	Manganese	AL015
	60	Marble	AL015
	61	Marl	AL015

TABLE E-64. Buildings Line Feature Table (Continued).

62	Masonry (Brick/Stone)	AL015
63	Mattes	AL015
64	Metal	AL015
65	Mud	AL015
67	Oil	AL015
71	Paper	AL015
72	Part Metal	AL015
73	Pebbles	AL015
74	Plastic	AL015
77	Prestressed Concrete	AL015
79	Pumice	AL015
80	Quartz	AL015
82	Radioactive Material	AL015
83	Reinforced Concrete	AL015
84	Rock/Rocky	AL015
85	Rubber	AL015
86	Rubble	AL015
87	Salt	AL015
88	Sand	AL015
89	Sandstone	AL015
90	Schist	AL015
94	Seaweed	AL015
95	Sewage	AL015
98	Shingle	AL015
99	Silt	AL015
100	Silver	AL015
101	Slag	AL015
103	Snow/Ice	AL015
104	Soil	AL015
107	Steel	AL015
108	Stone	AL015
109	Sugar	AL015
110	Travertin	AL015
111	Tufa	AL015
112	Uranium	AL015
113	Vegetation Products	AL015
114	Volcanic	AL015
115	Volcanic Ash	AL015
116	Water	AL015
117	Wood	AL015
118	Zinc	AL015
119	Bauxite	AL015
120	Bananas	AL015
121	Cotton	AL015
122	Bamboo	AL015
123	Coffee	AL015
124	Common fruit and/or nuts	AL015
125	Palms	AL015

TABLE E-64. Buildings Line Feature Table (Continued).

		126	Palmetto	AL015
		127	Tailings	AL015
		128	Refuse	AL015
		129	Tobacco	AL015
		130	None	AL015
		131	Personnel	AL015
		133	Telecommunications	AL015
		134	Fish	AL015
		997	Not Applicable	AL015
		998	Multiple	AL015
		999	Other	AL015
ssr	Structure Shape of Roof			
		0	Unknown	AL015
		6	Conical/Peaked/NUN	AL015
		38	Curved/Round (Quonset)	AL015
		40	Dome	AL015
		41	Flat	AL015
		42	Gable (Pitched)	AL015
		47	Sawtooth	AL015
		50	With Monitor	AL015
		55	Flat with Monitor	AL015
		64	Gable with Monitor	AL015
		77	With Cupola	AL015
		78	With Turret	AL015
		79	With Tower	AL015
		999	Other	AL015
use	Usage			
		0	Unknown	AL015
		4	National	AL015
		5	State	AL015
		6	Private	AL015
		8	Military	AL015
		22	Joint Military/Civilian	AL015
		23	International	AL015
		43	Institutional	AL015
		49	Civilian/Public	AL015
		120	Recreational	AL015
		130	Transportation	AL015
		991	Not Applicable	AL015
		999	Other	AL015
wid	Width (meters)			
		0	Unknown	AL015
		>0	Actual Value	AL015

TABLE E-65. Extraction Line Feature Table.

Thematic Layer: Industry
Coverage Name: **ind**
Table Description: Extraction Line Feature Table
Table Name: **extractl.lft**
dq Layer Number: 4

```
{Header length}L;
Extraction Line Feature Table;-;
id=I,1,P,Row Identifier,-,-,-,:
f_code=T,5,N,FACC Feature Code,char.vdt,f_code2.lti,-,:
ara=S,1,N,Area Coverage Attribute (sq. meters),int.vdt,-,-,:
arh=S,1,N,Area Coverage Attribute Hectares,-,-,-,:
exs=S,1,N,Existence Category,int.vdt,-,-,:
min=S,1,N,Mining Category,int.vdt,-,-,:
nam=T,*,N,Name,char.vdt,-,-,:
pro=S,1,N,Product Category,int.vdt,-,-,:
wid=S,1,N,Width (meters),int.vdt,-,-,:;
```

Column	**Description**	**Value**	**Value Meaning**	**Applicable f_code for Each Attribute Value**
id	Row Identifier	Sequential beginning with 1		
f_code	FACC Feature Code			
		AA010	Mine	
		AA012	Quarry	
ara	Area Coverage Attribute (sq. meters)			
		-32768	Null	AA010 **arh**>0, AA012 **arh**>0
		0	Unknown	AA010 **arh**=-32768, AA012 **arh**=-32768
		>0	Actual Value	AA010 **arh**=-32768, AA012 **arh**=-32768
arh	Area Coverage Attribute Hectares			
		-32768	Null	AA010 **ara**>=0, AA012 **ara**>=0
		>0	Actual Value	AA010 **ara**=-32768, AA012 **ara**=-32768
exs	Existence Category			
		0	Unknown	AA010, AA012
		3	Reported	AA010, AA012
		6	Abandoned/Disused	AA010, AA012
		28	Operational	AA010, AA012

TABLE E-65. Extraction Line Feature Table (Continued).

min	Mining Category			
		0	Unknown	AA010, AA012
		2	Horizontal Shaft	AA010, AA012
		3	Open Pit	AA010, AA012
		4	Placer	AA010, AA012
		5	Prospect	AA010, AA012
		6	Strip	AA010, AA012
		7	Vertical Shaft	AA010, AA012
		8	Peat Cuttings	AA010, AA012
nam	Name	Character text string		AA010, AA012
		"UNK" (no name present for feature)		AA010, AA012
pro	Product Category			
		0	Unknown	AA010, AA012
		16	Clay	AA010, AA012
		17	Coal	AA010, AA012
		23	Copper	AA010, AA012
		42	Gold	AA010, AA012
		46	Gravel	AA010, AA012
		51	Iron	AA010, AA012
		54	Lead	AA010, AA012
		84	Rock/Rocky	AA010, AA012
		87	Salt	AA010, AA012
		88	Sand	AA010, AA012
		100	Silver	AA010, AA012
		112	Uranium	AA010, AA012
		118	Zinc	AA010, AA012
		119	Bauxite	AA010, AA012
		999	Other	AA010, AA012
wid	Width (meters)			
		0	Unknown	AA010, AA012
		>0	Actual Value	AA010, AA012

TABLE E-66. Industry Line Feature Table.

Thematic Layer: Industry
Coverage Name: **ind**
Table Description: Industry Line Feature Table
Table Name: **indl.lft**
dq Layer Number: 4

```
{Header length}L;
Industry Line Feature Table;-;
id=I,1,P,Row Identifier,-,-,-,:
f_code=T,5,N,FACC Feature Code,char.vdt,f_code3.lti,-,:
loc=S,1,N,Location Category,int.vdt,-,-,:;
```

Column	Description	Value	Value Meaning	Applicable f_code for Each Attribute Value
id	Row Identifier	Sequential beginning with 1		
f_code	FACC Feature Code			
		AF020	Conveyor	
		BH060	Flume	
loc	Location Category			
		-32768	Null	AF020
		0	Unknown	BH060
		8	On Ground Surface	BH060
		25	Suspended/Elevated Above Ground or Water Surface	BH060

TABLE E-67. Buildings Area Feature Table.

Thematic Layer: Industry
Coverage Name: **ind**
Table Description: Buildings Area Feature Table
Table Name: **bldinda.aft**
dq Layer Number: 4

```
{Header length}L;
Buildings Area Feature Table;-;
id=I,1,P,Row Identifier,-,-,-,:
f_code=T,5,N,FACC Feature Code,char.vdt,-,-,:
ara=S,1,N,Area Coverage Attribute (sq. meters),int.vdt,-,-,:
arh=S,1,N,Area Coverage Attribute Hectares,-,-,-,:
bfc=S,1,N,Building Function Category,int.vdt,-,-,:
exs=S,1,N,Existence Category,int.vdt,-,-,:
hgt=S,1,N,Height Above Surface Level (meters),int.vdt,-,-,:
idn=T,*,N,Identification Number,char.vdt,-,-,:
nam=T,*,N,Name,char.vdt,-,-,:
pro=S,1,N,Product Category,int.vdt,-,-,:
ssr=S,1,N,Structure Shape of Roof,int.vdt,-,-,:
use=S,1,N,Usage,int.vdt,-,-,:;
```

Column	Description	Value	Value Meaning	Applicable f_code for Each Attribute Value
id	Row Identifier	Sequential beginning with 1		
f_code	FACC Feature Code			
		AL015	Building	
ara	Area Coverage Attribute (sq. meters)			
		-32768	Null	AL015 **arh**>0
		0	Unknown	AL015 **arh**=-32768
		>0	Actual Value	AL015 **arh**=-32768
arh	Area Coverage Attribute Hectares			
		-32768	Null	AL015 **ara**>=0
		>0	Actual Value	AL015 **ara**=-32768
bfc	Building Function Category			
		0	Unknown	AL015
		1	Fabrication Structures	AL015
		21	Garage	AL015
		22	Watermill/Gristmill	AL015
		23	Wind Tunnel	AL015
		24	Warehouse	AL015
		25	Roundhouse	AL015
		26	Railroad Storage/Repair Facility	AL015
		27	Depot Terminal	AL015

TABLE E-67. Buildings Area Feature Table (Continued).

		29	Aircraft Maintenance Shop	AL015
		30	Hangar	AL015
		40	Telephone Switching Station	AL015
		54	Service/Refueling Station	AL015
		59	Research and Development Lab/Research Facility	AL015
		71	Oil Mill (Vegetable)	AL015
		72	Aerator	AL015
		73	Carpentry	AL015
		74	Saw-mill	AL015
		75	Kiln/Oven	AL015
		76	Signal Box/Railway Signalman's House	AL015
		81	Maritime Station	AL015
		83	Power Generation	AL015
		84	Filtration Plant	AL015
		85	News Paper Plant	AL015
		86	Telephone Exchange (Main)	AL015
		90	Pumphouse	AL015
		102	Oil/Gas Facilities Building	AL015
		104	Paper/Pulp Mill	AL015
		110	Shipyard	AL015
		112	Steel Mill	AL015
		113	Weigh Scale (Highway)	AL015
		116	Factory	AL015
		120	Automobile Plant	AL015
		124	Repair Facility	AL015
		125	Barn/Machinery Shed	AL015
		999	Other	AL015
exs	Existence Category			
		0	Unknown	AL015
		5	Under Construction	AL015
		6	Abandoned/Disused	AL015
		7	Destroyed	AL015
		28	Operational	AL015
hgt	Height Above Surface level (meters)			
		0	Unknown	AL015
		>0	Actual Value	AL015
idn	Identification Number			
		0	Unknown	AL015
		Any		AL015

TABLE E-67. Buildings Area Feature Table (Continued).

nam	Name			
		Character text string		AL015
		"UNK" (no name present for feature)		AL015
pro	Product Category			
		0	Unknown	AL015
		1	Aircraft	AL015
		2	Aluminum	AL015
		3	Ammunition	AL015
		4	Ash	AL015
		5	Asphalt	AL015
		6	Basalt	AL015
		7	Bedrock	AL015
		8	Boulders	AL015
		9	Brick	AL015
		11	Cement	AL015
		12	Chalk	AL015
		13	Chemical	AL015
		14	Cinders	AL015
		16	Clay	AL015
		17	Coal	AL015
		18	Cobble	AL015
		19	Coke	AL015
		20	Composition	AL015
		21	Concrete	AL015
		22	Conglomerate	AL015
		23	Copper	AL015
		24	Coral	AL015
		26	Desalinated Water	AL015
		27	Diamonds	AL015
		29	Dolomite	AL015
		30	Earthen	AL015
		31	Electric	AL015
		32	Eroded Lands	AL015
		33	Explosives	AL015
		35	Food	AL015
		37	Fucus	AL015
		38	Gas	AL015
		39	Gasoline	AL015
		40	Glass	AL015
		42	Gold	AL015
		43	Granite	AL015
		45	Grass/Thatch	AL015
		46	Gravel	AL015
		48	Ground	AL015
		50	Heat	AL015
		51	Iron	AL015
		52	Lava	AL015

TABLE E-67. Buildings Area Feature Table (Continued).

54	Lead	AL015
56	Lumber	AL015
57	Macadam	AL015
59	Manganese	AL015
60	Marble	AL015
61	Marl	AL015
62	Masonry (Brick/Stone)	AL015
63	Mattes	AL015
64	Metal	AL015
65	Mud	AL015
67	Oil	AL015
71	Paper	AL015
72	Part Metal	AL015
73	Pebbles	AL015
74	Plastic	AL015
77	Prestressed Concrete	AL015
79	Pumice	AL015
80	Quartz	AL015
82	Radioactive Material	AL015
83	Reinforced Concrete	AL015
84	Rock/Rocky	AL015
85	Rubber	AL015
86	Rubble	AL015
87	Salt	AL015
88	Sand	AL015
89	Sandstone	AL015
90	Schist	AL015
94	Seaweed	AL015
95	Sewage	AL015
98	Shingle	AL015
99	Silt	AL015
100	Silver	AL015
101	Slag	AL015
103	Snow/Ice	AL015
104	Soil	AL015
107	Steel	AL015
108	Stone	AL015
109	Sugar	AL015
110	Travertin	AL015
111	Tufa	AL015
112	Uranium	AL015
113	Vegetation Products	AL015
114	Volcanic	AL015
115	Volcanic Ash	AL015
116	Water	AL015
117	Wood	AL015
118	Zinc	AL015
119	Bauxite	AL015
120	Bananas	AL015

TABLE E-67. Buildings Area Feature Table (Continued).

		121	Cotton	AL015
		122	Bamboo	AL015
		123	Coffee	AL015
		124	Common fruit and/or nuts	AL015
		125	Palms	AL015
		126	Palmetto	AL015
		127	Tailings	AL015
		128	Refuse	AL015
		129	Tobacco	AL015
		130	None	AL015
		131	Personnel	AL015
		133	Telecommunications	AL015
		134	Fish	AL015
		997	Not Applicable	AL015
		998	Multiple	AL015
		999	Other	AL015
ssr	Structure Shape of Roof			
		0	Unknown	AL015
		6	Conical/Peaked/NUN	AL015
		38	Curved/Round (Quonset)	AL015
		40	Dome	AL015
		41	Flat	AL015
		42	Gable (Pitched)	AL015
		47	Sawtooth	AL015
		50	With Monitor	AL015
		55	Flat with Monitor	AL015
		64	Gable with Monitor	AL015
		77	With Cupola	AL015
		78	With Turret	AL015
		79	With Tower	AL015
		999	Other	AL015
use	Usage			
		0	Unknown	AL015
		4	National	AL015
		5	State	AL015
		6	Private	AL015
		8	Military	AL015
		22	Joint Military/Civilian	AL015
		23	International	AL015
		43	Institutional	AL015
		49	Civilian/Public	AL015
		120	Recreational	AL015
		130	Transportation	AL015
		991	Not Applicable	AL015
		999	Other	AL015

TABLE E-68. Complex Area Area Feature Table.

Thematic Layer: Industry
Coverage Name: **ind**
Table Description: Complex Area Area Feature Table
Table Name: **cmpxinda.aft**
dq Layer Number: 4

```
{Header length}L;
Complex Area Area Feature Table;-;
id=I,1,P,Row Identifier,-,-,-,:
f_code=T,5,N,FACC Feature Code,char.vdt,-,-,:
ara=S,1,N,Area Coverage Attribute (sq. meters),int.vdt,-,-,:
arh=S,1,N,Area Coverage Attribute Hectares,-,-,-,:
bfc=S,1,N,Building Function Category,int.vdt,-,-,:
exs=S,1,N,Existence Category,int.vdt,-,-,:
hgt=S,1,N,Height Above Surface Level (meters),int.vdt,-,-,:
idn=T,*,N,Identification Number,char.vdt,-,-,:
loc=S,1,N,Location Category,int.vdt,-,-,:
nam=T,*,N,Name,char.vdt,-,-,:
pro=S,1,N,Product Category,int.vdt,-,-,:
use=S,1,N,Usage,int.vdt,-,-,:;
```

Column	**Description**	**Value**	**Value Meaning**	**Applicable f_code for Each Attribute Value**
id	Row Identifier	Sequential beginning with 1		
f_code	FACC Feature Code			
		AL045	Complex Outline	
ara	Area Coverage Attribute (sq. meters)			
		-32768	Null	AL045 **arh**>0
		0	Unknown	AL045 **arh**=-32768
		>0	Actual Value	AL045 **arh**=-32768
arh	Area Coverage Attribute Hectares			
		-32768	Null	AL045 **ara**>=0
		>0	Actual Value	AL045 **ara**=-32768
bfc	Building Function Category			
		0	Unknown	AL045
		1	Fabrication Structures	AL045
		21	Garage	AL045
		22	Watermill/Gristmill	AL045
		23	Wind Tunnel	AL045
		24	Warehouse	AL045
		25	Roundhouse	AL045
		26	Railroad Storage/Repair Facility	AL045
		27	Depot Terminal	AL045
		29	Aircraft Maintenance Shop	AL045

TABLE E-68. Complex Area Area Feature Table (Continued).

	30	Hangar	AL045
	40	Telephone Switching Station	AL045
	54	Service/Refueling Station	AL045
	59	Research and Development Lab/Research Facility	AL045
	71	Oil Mill (Vegetable)	AL045
	72	Aerator	AL045
	73	Carpentry	AL045
	74	Saw-mill	AL045
	75	Kiln/Oven	AL045
	76	Signal Box/Railway Signalman's House	AL045
	81	Maritime Station	AL045
	83	Power Generation	AL045
	84	Filtration Plant	AL045
	85	News Paper Plant	AL045
	86	Telephone Exchange (Main)	AL045
	90	Pumphouse	AL045
	102	Oil/Gas Facilities Building	AL045
	104	Paper/Pulp Mill	AL045
	110	Shipyard	AL045
	112	Steel Mill	AL045
	113	Weigh Scale (Highway)	AL045
	116	Factory	AL045
	120	Automobile Plant	AL045
	124	Repair Facility	AL045
	125	Barn/Machinery Shed	AL045
	999	Other	AL045
exs	Existence Category		
	0	Unknown	AL045
	5	Under Construction	AL045
	6	Abandoned/Disused	AL045
	7	Destroyed	AL045
	28	Operational	AL045
hgt	Height Above Surface Level (meters)		
	0	Unknown	AL045
	>0	Actual Value	AL045
idn	Identification Number		
	0	Unknown	AL045
	Any		AL045

TABLE E-68. Complex Area Area Feature Table (Continued).

loc	Location Category			
		0	Unknown	AL045
		4	Below Surface/Submerged/ Underground	AL045
		8	On Ground Surface	AL045
		25	Suspended/Elevated Above Ground or Water Surface	AL045
nam	Name			
		Character text string		AL045
		"UNK" (no name present for feature)		AL045
pro	Product Category			
		0	Unknown	AL045
		1	Aircraft	AL045
		2	Aluminum	AL045
		3	Ammunition	AL045
		4	Ash	AL045
		5	Asphalt	AL045
		6	Basalt	AL045
		7	Bedrock	AL045
		8	Boulders	AL045
		9	Brick	AL045
		11	Cement	AL045
		12	Chalk	AL045
		13	Chemical	AL045
		14	Cinders	AL045
		16	Clay	AL045
		17	Coal	AL045
		18	Cobble	AL045
		19	Coke	AL045
		20	Composition	AL045
		21	Concrete	AL045
		22	Conglomerate	AL045
		23	Copper	AL045
		24	Coral	AL045
		26	Desalinated Water	AL045
		27	Diamonds	AL045
		29	Dolomite	AL045
		30	Earthen	AL045
		31	Electric	AL045
		32	Eroded Lands	AL045
		33	Explosives	AL045
		35	Food	AL045
		37	Fucus	AL045
		38	Gas	AL045
		39	Gasoline	AL045
		40	Glass	AL045

TABLE E-68. Complex Area Area Feature Table (Continued).

42	Gold	AL045
43	Granite	AL045
45	Grass/Thatch	AL045
46	Gravel	AL045
48	Ground	AL045
50	Heat	AL045
51	Iron	AL045
52	Lava	AL045
54	Lead	AL045
56	Lumber	AL045
57	Macadam	AL045
59	Manganese	AL045
60	Marble	AL045
61	Marl	AL045
62	Masonry (Brick/Stone)	AL045
63	Mattes	AL045
64	Metal	AL045
65	Mud	AL045
67	Oil	AL045
71	Paper	AL045
72	Part Metal	AL045
73	Pebbles	AL045
74	Plastic	AL045
77	Prestressed Concrete	AL045
79	Pumice	AL045
80	Quartz	AL045
82	Radioactive Material	AL045
83	Reinforced Concrete	AL045
84	Rock/Rocky	AL045
85	Rubber	AL045
86	Rubble	AL045
87	Salt	AL045
88	Sand	AL045
89	Sandstone	AL045
90	Schist	AL045
94	Seaweed	AL045
95	Sewage	AL045
98	Shingle	AL045
99	Silt	AL045
100	Silver	AL045
101	Slag	AL045
103	Snow/Ice	AL045
104	Soil	AL045
107	Steel	AL045
108	Stone	AL045
109	Sugar	AL045
110	Travertin	AL045
111	Tufa	AL045
112	Uranium	AL045

TABLE E-68. Complex Area Area Feature Table (Continued).

		113	Vegetation Products	AL045
		114	Volcanic	AL045
		115	Volcanic Ash	AL045
		116	Water	AL045
		117	Wood	AL045
		118	Zinc	AL045
		119	Bauxite	AL045
		120	Bananas	AL045
		121	Cotton	AL045
		122	Bamboo	AL045
		123	Coffee	AL045
		124	Common fruit and/or nuts	AL045
		125	Palms	AL045
		126	Palmetto	AL045
		127	Tailings	AL045
		128	Refuse	AL045
		129	Tobacco	AL045
		130	None	AL045
		131	Personnel	AL045
		133	Telecommunications	AL045
		134	Fish	AL045
		997	Not Applicable	AL045
		998	Multiple	AL045
		999	Other	AL045
use	Usage			
		0	Unknown	AL045
		4	National	AL045
		5	State	AL045
		6	Private	AL045
		8	Military	AL045
		22	Joint Military/Civilian	AL045
		23	International	AL045
		43	Institutional	AL045
		49	Civilian/Public	AL045
		57	Marine	AL045
		120	Recreational	AL045
		130	Transportation	AL045
		991	Not Applicable	AL045
		999	Other	AL045

TABLE E-69. Disposal Area Feature Table.

Thematic Layer: Industry
Coverage Name: **ind**
Table Description: Disposal Area Feature Table
Table Name: **disposea.aft**
dq Layer Number: 4

```
{Header length}L;
Disposal Area Feature Table;-;
id=I,1,P,Row Identifier,-,-,-,:
f_code=T,5,N,FACC Feature Code,char.vdt,f_code3.ati,-,:
ara=S,1,N,Area Coverage Attribute (sq. meters),int.vdt,-,-,:
arh=S,1,N,Area Coverage Attribute Hectares,-,-,-,:
exs=S,1,N,Existence Category,int.vdt,-,-,:
pro=S,1,N,Product Category,int.vdt,-,-,:;
```

Column	**Description**	**Value**	**Value Meaning**	**Applicable f_code for Each Attribute Value**
id	Row Identifier	Sequential beginning with 1		
f_code	FACC Feature Code			
		AB000	Disposal Site/Waste Pile	
		AB010	Wrecking Yard/Scrap Yard	
ara	Area Coverage Attribute (sq. meters)			
		-32768	Null	AB000 **arh**>0,
				AB010 **arh**>0
		0	Unknown	AB000 **arh**=-32768,
				AB010 **arh**=-32768
		>0	Actual Value	AB000 **arh**=-32768,
				AB010 **arh**=-32768
arh	Area Coverage Attribute Hectares			
		-32768	Null	AB000 **ara**>=0,
				AB010 **ara**>=0
		>0	Actual Value	AB000 **ara**=-32768,
				AB010 **ara**=-32768
exs	Existence Category			
		0	Unknown	AB000, AB010
		6	Abandoned/Disused	AB000, AB010
		28	Operational	AB000, AB010
pro	Product Category			
		-32768	Null	AB010
		0	Unknown	AB000
		101	Slag	AB000
		127	Tailings	AB000
		128	Refuse	AB000
		999	Other	AB000

TABLE E-70. Extraction Area Feature Table.

Thematic Layer: Industry
Coverage Name: **ind**
Table Description: Extraction Area Feature Table
Table Name: **extracta.aft**
dq Layer Number: 4

```
{Header length}L;
Extraction Area Feature Table;-;
id=I,1,P,Row Identifier,-,-,-,:
f_code=T,5,N,FACC Feature Code,char.vdt,f_code4.ati,-,:
ara=S,1,N,Area Coverage Attribute (sq. meters),int.vdt,-,-,:
arh=S,1,N,Area Coverage Attribute Hectares,-,-,-,:
exs=S,1,N,Existence Category,int.vdt,-,-,:
min=S,1,N,Mining Category,int.vdt,-,-,:
nam=T,*,N,Name,char.vdt,-,-,:
pro=S,1,N,Product Category,int.vdt,-,-,:;
```

Column	**Description**	**Value**	**Value Meaning**	**Applicable f_code for Each Attribute Value**
id	Row Identifier	Sequential beginning with 1		
f_code	FACC Feature Code			
		AA010	Mine	
		AA012	Quarry	
		BH155	Salt Evaporator	
ara	Area Coverage Attribute (sq. meters)			
		-32768	Null	AA010 **arh**>0, AA012 **arh**>0, BH155 **arh**>0
		0	Unknown	AA010 **arh**=-32768, AA012 **arh**=-32768, BH155 **arh**=-32768
		>0	Actual Value	AA010 **arh**=-32768, AA012 **arh**=-32768, BH155 **arh**=-32768
arh	Area Coverage Attribute Hectares			
		-32768	Null	AA010 **ara**>=0, AA012 **ara**>=0, BH155 **ara**>=0
		>0	Actual Value	AA010 **ara**=-32768, AA012 **ara**=-32768, BH155 **ara**=-32768
exs	Existence Category			
		-32768	Null	BH155
		0	Unknown	AA010, AA012
		3	Reported	AA010, AA012
		6	Abandoned/Disused	AA010, AA012
		28	Operational	AA010, AA012

TABLE E-70. Extraction Area Feature Table (Continued).

min	Mining Category			
		-32768	Null	BH155
		0	Unknown	AA010, AA012
		2	Horizontal Shaft	AA010, AA012
		3	Open Pit	AA010, AA012
		4	Placer	AA010, AA012
		5	Prospect	AA010, AA012
		6	Strip	AA010, AA012
		7	Vertical Shaft	AA010, AA012
		8	Peat Cuttings	AA010, AA012
nam	Name			
		VLT=0-length	Null	BH155
		Character text string		AA010, AA012
		"UNK" (no name present for feature)		AA010, AA012
pro	Product Category			
		-32768	Null	BH155
		0	Unknown	AA010, AA012
		16	Clay	AA010, AA012
		17	Coal	AA010, AA012
		23	Copper	AA010, AA012
		42	Gold	AA010, AA012
		46	Gravel	AA010, AA012
		51	Iron	AA010, AA012
		54	Lead	AA010, AA012
		84	Rock/Rocky	AA010, AA012
		87	Salt	AA010, AA012
		88	Sand	AA010, AA012
		100	Silver	AA010, AA012
		112	Uranium	AA010, AA012
		118	Zinc	AA010, AA012
		119	Bauxite	AA010, AA012
		999	Other	AA010, AA012

TABLE E-71. Power Area Feature Table.

Thematic Layer: Industry
Coverage Name: **ind**
Table Description: Power Area Feature Table
Table Name: **powrinda.aft**
dq Layer Number: 4

```
{Header length}L;
Power Area Feature Table;-;
id=I,1,P,Row Identifier,-,-,-,:
f_code=T,5,N,FACC Feature Code,char.vdt,f_code5.ati,-,:
ara=S,1,N,Area Coverage Attribute (sq. meters),int.vdt,-,-,:
arh=S,1,N,Area Coverage Attribute Hectares,-,-,-,:
len=S,1,N,Length (meters),int.vdt,-,-,:;
```

Column	**Description**	**Value**	**Value Meaning**	**Applicable f_code for Each Attribute Value**
id	Row Identifier	Sequential beginning with 1		
f_code	FACC Feature Code			
		AF030	Cooling Tower	
		AL140	Particle Accelerator	
ara	Area Coverage Attribute (sq. meters)			
		-32768	Null	AF030, AL140 **arh**>0
		0	Unknown	AL140 **arh**=-32768
		>0	Actual Value	AL140 **arh**=-32768
arh	Area Coverage Attribute Hectares			
		-32768	Null	AF030, AL140 **ara**>=0
		>0	Actual Value	AL140 **ara**=-32768
len	Length (meters)			
		-32768	Null	AL140
		0	Unknown	AF030
		>0	Actual Value	AF030

TABLE E-72. Processing Area Feature Table.

Thematic Layer: Industry
Coverage Name: **ind**
Table Description: Processing Area Feature Table
Table Name: **processa.aft**
dq Layer Number: 4

```
{Header length}L;
Processing Area Feature Table;-;
id=I,1,P,Row Identifier,-,-,-,:
f_code=T,5,N,FACC Feature Code,char.vdt,f_code6.ati,-,:
ara=S,1,N,Area Coverage Attribute (sq. meters),int.vdt,-,-,:
arh=S,1,N,Area Coverage Attribute Hectares,-,-,-,:
exs=S,1,N,Existence Category,int.vdt,-,-,:
nam=T,*,N,Name,char.vdt,-,-,:
pro=S,1,N,Product Category,int.vdt,-,-,:;
```

Column	Description	Value	Value Meaning	Applicable f_code for Each Attribute Value
id	Row Identifier	Sequential beginning with 1		
f_code	FACC Feature Code			
		AC000	Processing Plant/Treatment Plant	
		AC030	Settling Basin/Sludge Pond	
		AJ030	Feed Lot/Stockyard/Holding Pen	
		BH040	Filtration Beds/Aeration Beds	
		BH050	Fish Hatchery/Fish Farm/Marine Farm	
ara	Area Coverage Attribute (sq. meters)			
		-32768	Null	AC000 **arh**>0, AC030 **arh**>0, AJ030 **arh**>0, BH040 **arh**>0, BH050 **arh**>0
		0	Unknown	AC000 **arh**=-32768, AC030 **arh**=-32768, AJ030 **arh**=-32768, BH040 **arh**=-32768, BH050 **arh**=-32768
		>0	Actual Value	AC000 **arh**=-32768, AC030 **arh**=-32768, AJ030 **arh**=-32768, BH040 **arh**=-32768, BH050 **arh**=-32768
arh	Area Coverage Attribute Hectares			
		-32768	Null	AC000 **ara**>=0, AC030 **ara**>=0, AJ030 **ara**>=0, BH040 **ara**>=0, BH050 **ara**>=0

TABLE E-72. Processing Area Feature Table (Continued).

		>0	Actual Value	AC000 **ara**=-32768, AC030 **ara**=-32768, AJ030 **ara**=-32768, BH040 **ara**=-32768, BH050 **ara**=-32768
exs	Existence Category			
		0	Unknown	AC000, AC030, AJ030, BH040, BH050
		6	Abanoned/Disused	AC000, AC030, AJ030, BH040, BH050
		28	Operational	AC000, AC030, AJ030, BH040, BH050
nam	Name			
		Character text string		AC000, AC030, AJ030, BH040, BH050
		"UNK" (no name present for feature)		AC000, AC030, AJ030, BH040, BH050
pro	Product Category			
		-32768	Null	AC030, AJ030, BH040
		0	Unknown	AC000
		2	Aluminum	AC000
		5	Asphalt	AC000
		9	Brick	AC000
		11	Cement	AC000
		13	Chemical	AC000
		17	Coal	AC000
		19	Coke	AC000
		21	Concrete	AC000
		23	Copper	AC000
		33	Explosives	AC000
		35	Food	AC000
		38	Gas	AC000
		39	Gasoline	AC000
		40	Glass	AC000
		42	Gold	AC000
		50	Heat	AC000
		51	Iron	AC000
		54	Lead	AC000
		56	Lumber	AC000
		64	Metal	AC000
		67	Oil	AC000
		71	Paper	AC000
		74	Plastic	AC000
		82	Radioactive Material	AC000
		85	Rubber	AC000

TABLE E-72. Processing Area Feature Table (Continued).

95	Sewage		AC000
	100	Silver	AC000
	103	Snow/Ice	AC000
	107	Steel	AC000
	112	Uranium	AC000
	113	Vegetation Products	AC000
	116	Water	AC000
	118	Zinc	AC000
	129	Tobacco	AC000
	134	Fish	BH050
	999	Other	AC000

TABLE E-73. Storage Area Feature Table.

Thematic Layer: Industry
Coverage Name: **ind**
Table Description: Storage Area Feature Table
Table Name: **storagea.aft**
dq Layer Number: 4

```
{Header length}L;
Storage Area Feature Table;-;
id=I,1,P,Row Identifier,-,-,-,:
f_code=T,5,N,FACC Feature Code,char.vdt,f_code7.ati,-,:
hgt=S,1,N,Height Above Surface Level (meters),int.vdt,-,-,:
idn=T,*,N,Identification Number,char.vdt,-,-,:
loc=S,1,N,Location Category,int.vdt,-,-,:
nam=T,*,N,Name,char.vdt,-,-,:
pro=S,1,N,Product Category,int.vdt,-,-,:
use=S,1,N,Usage,int.vdt,-,-,:;
```

Column	Description	Value	Value Meaning	Applicable f_code for Each Attribute Value
id	Row Identifier	Sequential beginning with 1		
f_code	FACC Feature Code			
		AM010	Depot (Storage)	
		AM020	Grain Bin/Silo	
		AM030	Grain Elevator	
		AM040	Mineral Pile	
		AM060	Storage Bunker/Storage Mound	
		AM070	Tank	
		AM080	Water Tower	
hgt	Height Above Surface Level (meters)			
		-32768	Null	AM010, AM020, AM040, AM060
		0	Unknown	AM030, AM070, AM080
		>0	Actual Value	AM030, AM070, AM080
idn	Identification Number			
		VLT=0-length Null		AM020, AM030, AM040, AM060, AM070, AM080
		0	Unknown	AM010
		Any		AM010
loc	Location Category			
		-32768	Null	AM020, AM030, AM040, AM060, AM080
		0	Unknown	AM010, AM070
		4	Below Surface/Submerged/ Underground	AM010, AM070
		8	On Ground Surface	AM010, AM070

TABLE E-73. Storage Area Feature Table (Continued).

nam	Name			
		Character text string		AM010, AM020, AM030, AM040, AM060, AM070, AM080
		"UNK" (no name present for feature)		AM010, AM020, AM030, AM040, AM060, AM070, AM080
pro	Product Category			
		-32768	Null	AM020, AM030, AM080
		0	Unknown	AM010, AM040, AM060, AM070
		1	Aircraft	AM010, AM060
		3	Ammunition	AM010, AM060
		13	Chemical	AM010, AM070
		17	Coal	AM010, AM040
		19	Coke	AM010, AM040
		33	Explosives	AM010, AM060
		38	Gas	AM010, AM070
		39	Gasoline	AM010, AM060, AM070
		46	Gravel	AM010, AM040
		67	Oil	AM010, AM070
		82	Radioactive Material	AM010, AM060
		87	Salt	AM010, AM040
		88	Sand	AM010, AM040
		95	Sewage	AM070
		108	Stone	AM010, AM040
		112	Uranium	AM010, AM060
		116	Water	AM010, AM070
		999	Other	AM010, AM060, AM070
use	Usage	0	Unknown	AM010, AM020, AM030, AM040, AM060, AM070, AM080
		8	Military	AM010, AM020, AM030, AM040, AM060, AM070, AM080
		22	Joint Military/ Civilian	AM010, AM020, AM030, AM040, AM060, AM070, AM080

TABLE E-73. Storage Area Feature Table (Continued).

49	Civilian/Public	AM010, AM020, AM030, AM040, AM060, AM070, AM080
119	Berthing of Vessels	AM010

TABLE E-74. Industry Text Feature Table.

Thematic Layer: Industry
Coverage Name: **ind**
Table Description: Industry Text Feature Table
Table Name: **indtxt.tft**
dq Layer Number: 4

```
{Header length}L;
Industry Text Feature Table;-;
id=I,1,P,Row Identifier,-,-,-,:
f_code=T,5,N,FACC Feature Code,char.vdt,f_code1.tti,-,:
symbol_id=S,1,N,Symbol Identification,-,-,-,:
tile_id=S,1,N,Tile Reference ID,-,tile1_id.tti,-,:
txt_id=I,1,N,Text Primitive ID,-,txt1_id.tti,-,:;
```

Column	Description	Value	Value Meaning
id	Row Identifier	Sequential beginning with 1	
f_code	FACC Feature Code		
		ZD040	Named Location
		ZD045	Text Description
symbol_id	Symbol Identification (Refer to Symbol Related Attribute Table for selection of values)		

TABLE E-75. Industry Feature Class Attribute Table.

Thematic Layer: Industry
Coverage Name: **ind**
Table Description: Industry Feature Class Attribute Table
Table Name: **fca**
dq Layer Number: 4

{Header length}L; Industry Feature Class Attribute Table;-; id=I,1,P,Row Identifier,-,-,-,: fclass=T,8,U,Feature Class Name,-,-,-,: type=T,1,N,Feature Type,char.vdt,-,-,: descr=T,*,N,Description,-,-,-,:;

1	bldindp	P	Buildings Points
:	:	:	:
n	n	n	n

Column	Description	Value	Value Meaning	Applicable fclass for Each Attribute Value
id	Row Identifier	Sequential beginning with 1		
fclass	Feature Class Name			
		bldindp		
		cisternp		
		extractp		
		obstrp		
		rigwellp		
		storagep		
		bldindl		
		extractl		
		indl		
		bldinda		
		cmpxinda		
		disposea		
		extracta		
		powrinda		
		processa		
		storagea		
		indtxt		
type	Feature Type			
		P	Point/Node Feature	bldindp, cisternp, extractp, obstrp, rigwellp, storagep
		L	Line Feature	bldindl, extractl, indl
		A	Area Feature	bldinda, cmpxinda, disposea, extracta, powrinda, processa, storagea
		T	Text Feature	indtxt

TABLE E-75. Industry Feature Class Attribute Table (Continued).

descr	Description		
		Buildings Points	bldindp
		Cistern Points	cisternp
		Extraction Points	extractp
		Obstruction Points	obstrp
		Rig Well Points	rigwellp
		Storage Points	storagep
		Buildings Lines	bldindl
		Extraction Lines	extractl
		Industry Lines	indl
		Buildings Areas	bldinda
		Complex Area Areas	cmpxinda
		Disposal Areas	disposea
		Extraction Areas	extracta
		Power Areas	powrinda
		Processing Areas	processa
		Storage Areas	storagea
		Industry Coverage Text	indtxt

TABLE E-76. Industry Character Value Description Table.

Thematic Layer: Industry
Coverage Name: **ind**
Table Description: Industry Character Value Description Table
Table Name: **char.vdt**
DQ Layer Number: 4

```
{Header length}L;
Industry Character Value Description Table;-;
id=I,1,P,Row Identifier,-,-,-,:
table=T,12,N,Name of the Feature Table,-,-,-,:
attribute=T,6,N,Column Name,-,-,-,:
value=T,5,N,Unique Value of Attribute,-,-,-,:
description=T,35,N,Description of Value,-,-,-,:;
```

1	bldindp.pft	f_code	AL015	Building
2	bldindp.pft	idn	0	Unknown
3	bldindp.pft	nam	UNK	No name present
4	cisternp.pft	f_code	BI010	Cistern
5	extractp.pft	f_code	AA010	Mine
6	extractp.pft	f_code	AA012	Quarry
7	extractp.pft	nam	UNK	No name present
8	obstrp.pft	f_code	AF010	Chimney/Smokestack
9	obstrp.pft	f_code	AF030	Cooling Tower
10	obstrp.pft	f_code	AF040	Crane
11	obstrp.pft	f_code	AF070	Flare Pipe
12	obstrp.pft	f_code	AJ050	Windmill
13	obstrp.pft	f_code	AL240	Tower (Non-Communication)
14	rigwellp.pft	f_code	AA040	Rig/Superstructure
15	rigwellp.pft	f_code	AA050	Well
16	rigwellp.pft	f_code	AC020	Catalytic Cracker
17	rigwellp.pft	nam	UNK	No name present
18	storagep.pft	f_code	AM010	Depot (Storage)
19	storagep.pft	f_code	AM020	Grain Bin/Silo
20	storagep.pft	f_code	AM030	Grain Elevator
21	storagep.pft	f_code	AM060	Storage Bunker/Storage Mound
22	storagep.pft	f_code	AM070	Tank
23	storagep.pft	f_code	AM080	Water Tower
24	storagep.pft	idn	0	Unknown
25	storagep.pft	nam	UNK	No name present
26	dqpoint.pft	f_code	AL015	Building
27	dqpoint.pft	f_code	BI010	Cistern
28	dqpoint.pft	f_code	AA010	Mine
29	dqpoint.pft	f_code	AA012	Quarry
30	dqpoint.pft	f_code	AF010	Chimney/Smokestack
31	dqpoint.pft	f_code	AF030	Cooling Tower
32	dqpoint.pft	f_code	AF040	Crane
33	dqpoint.pft	f_code	AF070	Flare Pipe
34	dqpoint.pft	f_code	AJ050	Windmill
35	dqpoint.pft	f_code	AL240	Tower (Non-Communication)
36	dqpoint.pft	f_code	AA040	Rig/Superstructure
37	dqpoint.pft	f_code	AA050	Well

TABLE E-76. Industry Character Value Description Table (Continued).

38	dqpoint.pft	f_code	AC020	Catalytic Cracker
39	dqpoint.pft	f_code	AM010	Depot (Storage)
40	dqpoint.pft	f_code	AM020	Grain Bin/Silo
41	dqpoint.pft	f_code	AM030	Grain Elevator
42	dqpoint.pft	f_code	AM060	Storage Bunker/Storage Mound
43	dqpoint.pft	f_code	AM070	Tank
44	dqpoint.pft	f_code	AM080	Water Tower
45	dqpoint.pft	f_code	ZD045	Text Description
46	bldindl.lft	f_code	AL015	Building
47	bldindl.lft	idn	0	Unknown
48	bldindl.lft	nam	UNK	No name present
49	extractl.lft	f_code	AA010	Mine
50	extractl.lft	f_code	AA012	Quarry
51	extractl.lft	nam	UNK	No name present
52	indl.lft	f_code	AF020	Conveyor
53	indl.lft	f_code	BH060	Flume
54	dqline.lft	f_code	AL015	Building
55	dqline.lft	f_code	AA010	Mine
56	dqline.lft	f_code	AA012	Quarry
57	dqline.lft	f_code	AF020	Conveyor
58	dqline.lft	f_code	BH060	Flume
59	dqline.lft	f_code	ZD045	Text Description
60	bldinda.aft	f_code	AL015	Building
61	bldinda.aft	idn	0	Unknown
62	bldinda.aft	nam	UNK	No name present
63	cmpxinda.aft	f_code	AL045	Complex Outline
64	cmpxinda.aft	idn	0	Unknown
65	cmpxinda.aft	nam	UNK	No name present
66	disposea.aft	f_code	AB000	Disposal Site/Waste Pile
67	disposea.aft	f_code	AB010	Wrecking Yard/Scrap Yard
68	extracta.aft	f_code	AA010	Mine
69	extracta.aft	f_code	AA012	Quarry
70	extracta.aft	f_code	BH155	Salt Evaporator
71	extracta.aft	nam	UNK	No name present
72	powrinda.aft	f_code	AF030	Cooling Tower
73	powrinda.aft	f_code	AL140	Particle Accelerator
74	processa.aft	f_code	AC000	Processing Plant/Treatment Plant
75	processa.aft	f_code	AC030	Settling Basin/Sludge Pond
76	processa.aft	f_code	AJ030	Feed Lot/Stockyard/Holding Pen
77	processa.aft	f_code	BH040	Filtration Beds/Aeration Beds
78	processa.aft	f_code	BH050	Fish Hatchery/Fish Farm/Marine Farm
79	processa.aft	nam	UNK	No name present
80	storagea.aft	f_code	AM010	Depot (Storage)
81	storagea.aft	f_code	AM020	Grain Bin/Silo
82	storagea.aft	f_code	AM030	Grain Elevator
83	storagea.aft	f_code	AM040	Mineral Pile
84	storagea.aft	f_code	AM060	Storage Bunker/Storage Mound

TABLE E-76. Industry Character Value Description Table (Continued).

85	storagea.aft	f_code	AM070	Tank
86	storagea.aft	f_code	AM080	Water Tower
87	storagea.aft	idn	0	Unknown
88	storagea.aft	nam	UNK	No name present
89	dqarea.aft	f_code	AL015	Building
90	dqarea.aft	f_code	AL045	Complex Outline
91	dqarea.aft	f_code	AB000	Disposal Site/Waste Pile
92	dqarea.aft	f_code	AB010	Wrecking Yard/Scrap Yard
93	dqarea.aft	f_code	AA010	Mine
94	dqarea.aft	f_code	AA012	Quarry
95	dqarea.aft	f_code	BH155	Salt Evaporator
96	dqarea.aft	f_code	AF030	Cooling Tower
97	dqarea.aft	f_code	AL140	Particle Accelerator
98	dqarea.aft	f_code	AC000	Processing Plant/Treatment Plant
99	dqarea.aft	f_code	AC030	Settling Basin/Sludge Pond
100	dqarea.aft	f_code	AJ030	Feed Lot/Stockyard/Holding Pen
101	dqarea.aft	f_code	BH040	Filtration Beds/Aeration Beds
102	dqarea.aft	f_code	BH050	Fish Hatchery/Fish Farm/Marine Farm
103	dqarea.aft	f_code	AM010	Depot (Storage)
104	dqarea.aft	f_code	AM020	Grain Bin/Silo
105	dqarea.aft	f_code	AM030	Grain Elevator
106	dqarea.aft	f_code	AM040	Mineral Pile
107	dqarea.aft	f_code	AM060	Storage Bunker/Storage Mound
108	dqarea.aft	f_code	AM070	Tank
109	dqarea.aft	f_code	AM080	Water Tower
110	dqarea.aft	f_code	ZD045	Text Description
111	indtxt.tft	f_code	ZD040	Named Location
112	indtxt.tft	f_code	ZD045	Text Description
113	fca	type	P	Point/Node Feature
114	fca	type	L	Line Feature
115	fca	type	A	Area Feature
116	fca	type	T	Text Feature

TABLE E-77. Industry Integer Value Description Table.

Thematic Layer: Industry
Coverage Name: **ind**
Table Description: Industry Integer Value Description Table
Table Name: **int.vdt**
dq Layer Number: 4

{Header length}L;
Industry Integer Value Description Table;-;
id=I,1,P,Row Identifier,-,-,-,:
table=T,12,N,Name of the Feature Table,-,-,-,:
attribute=T,3,N,Column Name,-,-,-,:
value=S,1,N,Unique Value of Attribute,-,-,-,:
description=T,52,N,Description of Value,-,-,-,:;

1	bldindp.pft	ara	0	Unknown
2	bldindp.pft	bfc	0	Unknown
3	bldindp.pft	bfc	1	Fabrication Structures
4	bldindp.pft	bfc	21	Garage
5	bldindp.pft	bfc	22	Watermill/Gristmill
6	bldindp.pft	bfc	23	Wind Tunnel
7	bldindp.pft	bfc	24	Warehouse
8	bldindp.pft	bfc	25	Roundhouse
9	bldindp.pft	bfc	26	Railroad Storage/Repair Facility
10	bldindp.pft	bfc	27	Depot Terminal
11	bldindp.pft	bfc	29	Aircraft Maintenance Shop
12	bldindp.pft	bfc	30	Hangar
13	bldindp.pft	bfc	40	Telephone Switching Station
14	bldindp.pft	bfc	54	Service/Refueling Station
15	bldindp.pft	bfc	59	Research and Development Lab/Research Facility
16	bldindp.pft	bfc	71	Oil Mill (Vegetable)
17	bldindp.pft	bfc	72	Aerator
18	bldindp.pft	bfc	73	Carpentry
19	bldindp.pft	bfc	74	Saw-mill
20	bldindp.pft	bfc	75	Kiln/Oven
21	bldindp.pft	bfc	76	Signal Box/Railway Signalman's House
22	bldindp.pft	bfc	81	Maritime Station
23	bldindp.pft	bfc	83	Power Generation
24	bldindp.pft	bfc	84	Filtration Plant
25	bldindp.pft	bfc	85	News Paper Plant
26	bldindp.pft	bfc	86	Telephone Exchange (Main)
27	bldindp.pft	bfc	89	Processing/Treatment
28	bldindp.pft	bfc	90	Pumphouse
29	bldindp.pft	bfc	94	Railroad Station
30	bldindp.pft	bfc	102	Oil/Gas Facilities Building
31	bldindp.pft	bfc	104	Paper/Pulp Mill
32	bldindp.pft	bfc	110	Shipyard
33	bldindp.pft	bfc	112	Steel Mill
34	bldindp.pft	bfc	113	Weigh Scale (Highway)
35	bldindp.pft	bfc	116	Factory

TABLE E-77. Industry Integer Value Description Table (Continued).

36	bldindp.pft	bfc	120	Automobile Plant
37	bldindp.pft	bfc	124	Repair Facility
38	bldindp.pft	bfc	125	Barn/Machinery Shed
39	bldindp.pft	bfc	999	Other
40	bldindp.pft	exs	0	Unknown
41	bldindp.pft	exs	5	Under Construction
42	bldindp.pft	exs	6	Abandoned/Disused
43	bldindp.pft	exs	7	Destroyed
44	bldindp.pft	exs	28	Operational
45	bldindp.pft	hgt	0	Unknown
46	bldindp.pft	len	0	Unknown
47	bldindp.pft	pro	0	Unknown
48	bldindp.pft	pro	1	Aircraft
49	bldindp.pft	pro	2	Aluminum
50	bldindp.pft	pro	3	Ammunition
51	bldindp.pft	pro	4	Ash
52	bldindp.pft	pro	5	Asphalt
53	bldindp.pft	pro	6	Basalt
54	bldindp.pft	pro	7	Bedrock
55	bldindp.pft	pro	8	Boulders
56	bldindp.pft	pro	9	Brick
57	bldindp.pft	pro	11	Cement
58	bldindp.pft	pro	12	Chalk
59	bldindp.pft	pro	13	Chemical
60	bldindp.pft	pro	14	Cinders
61	bldindp.pft	pro	16	Clay
62	bldindp.pft	pro	17	Coal
63	bldindp.pft	pro	18	Cobble
64	bldindp.pft	pro	19	Coke
65	bldindp.pft	pro	20	Composition
66	bldindp.pft	pro	21	Concrete
67	bldindp.pft	pro	22	Conglomerate
68	bldindp.pft	pro	23	Copper
69	bldindp.pft	pro	24	Coral
70	bldindp.pft	pro	26	Desalinated Water
71	bldindp.pft	pro	27	Diamonds
72	bldindp.pft	pro	29	Dolomite
73	bldindp.pft	pro	30	Earthen
74	bldindp.pft	pro	31	Electric
75	bldindp.pft	pro	32	Eroded Lands
76	bldindp.pft	pro	33	Explosives
77	bldindp.pft	pro	35	Food
78	bldindp.pft	pro	37	Fucus
79	bldindp.pft	pro	38	Gas
80	bldindp.pft	pro	39	Gasoline
81	bldindp.pft	pro	40	Glass
82	bldindp.pft	pro	42	Gold
83	bldindp.pft	pro	43	Granite
84	bldindp.pft	pro	45	Grass/Thatch

TABLE E-77. Industry Integer Value Description Table (Continued).

85	bldindp.pft	pro	46	Gravel
86	bldindp.pft	pro	48	Ground
87	bldindp.pft	pro	50	Heat
88	bldindp.pft	pro	51	Iron
89	bldindp.pft	pro	52	Lava
90	bldindp.pft	pro	54	Lead
91	bldindp.pft	pro	56	Lumber
92	bldindp.pft	pro	57	Macadam
93	bldindp.pft	pro	59	Manganese
94	bldindp.pft	pro	60	Marble
95	bldindp.pft	pro	61	Marl
96	bldindp.pft	pro	62	Masonry (Brick/Stone)
97	bldindp.pft	pro	63	Mattes
98	bldindp.pft	pro	64	Metal
99	bldindp.pft	pro	65	Mud
100	bldindp.pft	pro	67	Oil
101	bldindp.pft	pro	71	Paper
102	bldindp.pft	pro	72	Part Metal
103	bldindp.pft	pro	73	Pebbles
104	bldindp.pft	pro	74	Plastic
105	bldindp.pft	pro	77	Prestressed Concrete
106	bldindp.pft	pro	79	Pumice
107	bldindp.pft	pro	80	Quartz
108	bldindp.pft	pro	82	Radioactive Material
109	bldindp.pft	pro	83	Reinforced Concrete
110	bldindp.pft	pro	84	Rock/Rocky
111	bldindp.pft	pro	85	Rubber
112	bldindp.pft	pro	86	Rubble
113	bldindp.pft	pro	87	Salt
114	bldindp.pft	pro	88	Sand
115	bldindp.pft	pro	89	Sandstone
116	bldindp.pft	pro	90	Schist
117	bldindp.pft	pro	94	Seaweed
118	bldindp.pft	pro	95	Sewage
119	bldindp.pft	pro	98	Shingle
120	bldindp.pft	pro	99	Silt
121	bldindp.pft	pro	100	Silver
122	bldindp.pft	pro	101	Slag
123	bldindp.pft	pro	103	Snow/Ice
124	bldindp.pft	pro	104	Soil
125	bldindp.pft	pro	107	Steel
126	bldindp.pft	pro	108	Stone
127	bldindp.pft	pro	109	Sugar
128	bldindp.pft	pro	110	Travertin
129	bldindp.pft	pro	111	Tufa
130	bldindp.pft	pro	112	Uranium
131	bldindp.pft	pro	113	Vegetation Products
132	bldindp.pft	pro	114	Volcanic
133	bldindp.pft	pro	115	Volcanic Ash

TABLE E-77. Industry Integer Value Description Table (Continued).

134	bldindp.pft	pro	116	Water
135	bldindp.pft	pro	117	Wood
136	bldindp.pft	pro	118	Zinc
137	bldindp.pft	pro	119	Bauxite
138	bldindp.pft	pro	120	Bananas
139	bldindp.pft	pro	121	Cotton
140	bldindp.pft	pro	122	Bamboo
141	bldindp.pft	pro	123	Coffee
142	bldindp.pft	pro	124	Common fruit and/or nuts
143	bldindp.pft	pro	125	Palms
144	bldindp.pft	pro	126	Palmetto
145	bldindp.pft	pro	127	Tailings
146	bldindp.pft	pro	128	Refuse
147	bldindp.pft	pro	129	Tobacco
148	bldindp.pft	pro	130	None
149	bldindp.pft	pro	131	Personnel
150	bldindp.pft	pro	133	Telecommunications
151	bldindp.pft	pro	134	Fish
152	bldindp.pft	pro	997	Not Applicable
153	bldindp.pft	pro	998	Multiple
154	bldindp.pft	pro	999	Other
155	bldindp.pft	ssr	0	Unknown
156	bldindp.pft	ssr	6	Conical/Peaked/NUN
157	bldindp.pft	ssr	38	Curved/Round (Quonset)
158	bldindp.pft	ssr	40	Dome
159	bldindp.pft	ssr	41	Flat
160	bldindp.pft	ssr	42	Gable (Pitched)
161	bldindp.pft	ssr	47	Sawtooth
162	bldindp.pft	ssr	50	With Monitor
163	bldindp.pft	ssr	55	Flat with Monitor
164	bldindp.pft	ssr	64	Gable with Monitor
165	bldindp.pft	ssr	77	With Cupola
166	bldindp.pft	ssr	78	With Turret
167	bldindp.pft	ssr	79	With Tower
168	bldindp.pft	ssr	999	Other
169	bldindp.pft	use	0	Unknown
170	bldindp.pft	use	4	National
171	bldindp.pft	use	5	State
172	bldindp.pft	use	6	Private
173	bldindp.pft	use	8	Military
174	bldindp.pft	use	22	Joint Military/Civilian
175	bldindp.pft	use	23	International
176	bldindp.pft	use	43	Institutional
177	bldindp.pft	use	49	Civilian/Public
178	bldindp.pft	use	120	Recreational
179	bldindp.pft	use	130	Transportation
180	bldindp.pft	use	991	Not Applicable
181	bldindp.pft	use	999	Other
182	bldindp.pft	wid	0	Unknown

TABLE E-77. Industry Integer Value Description Table (Continued).

183	extractp.pft	ara	0	Unknown
184	extractp.pft	exs	0	Unknown
185	extractp.pft	exs	3	Reported
186	extractp.pft	exs	6	Abandoned/Disused
187	extractp.pft	exs	28	Operational
188	extractp.pft	min	0	Unknown
189	extractp.pft	min	2	Horizontal Shaft
190	extractp.pft	min	3	Open Pit
191	extractp.pft	min	4	Placer
192	extractp.pft	min	5	Prospect
193	extractp.pft	min	6	Strip
194	extractp.pft	min	7	Vertical Shaft
195	extractp.pft	min	8	Peat Cuttings
196	extractp.pft	pro	0	Unknown
197	extractp.pft	pro	16	Clay
198	extractp.pft	pro	17	Coal
199	extractp.pft	pro	23	Copper
200	extractp.pft	pro	42	Gold
201	extractp.pft	pro	46	Gravel
202	extractp.pft	pro	51	Iron
203	extractp.pft	pro	54	Lead
204	extractp.pft	pro	84	Rock/Rocky
205	extractp.pft	pro	87	Salt
206	extractp.pft	pro	88	Sand
207	extractp.pft	pro	100	Silver
208	extractp.pft	pro	112	Uranium
209	extractp.pft	pro	118	Zinc
210	extractp.pft	pro	119	Bauxite
211	extractp.pft	pro	999	Other
212	extractp.pft	wid	0	Unknown
213	obstrp.pft	hgt	0	Unknown
214	obstrp.pft	len	0	Unknown
215	obstrp.pft	ttc	0	Unknown
216	obstrp.pft	ttc	1	Bridge
217	obstrp.pft	ttc	2	Observation/Lookout
218	obstrp.pft	ttc	3	Other
219	obstrp.pft	ttc	4	Undefined
220	obstrp.pft	use	0	Unknown
221	obstrp.pft	use	8	Military
222	obstrp.pft	use	22	Joint Military/Civilian
223	obstrp.pft	use	49	Civilian/Public
224	rigwellp.pft	exs	0	Unknown
225	rigwellp.pft	exs	3	Reported
226	rigwellp.pft	exs	6	Abandoned/Disused
227	rigwellp.pft	exs	28	Operational
228	rigwellp.pft	hgt	0	Unknown
229	rigwellp.pft	loc	0	Unknown
230	rigwellp.pft	loc	22	Off Shore
231	rigwellp.pft	loc	999	Other

TABLE E-77. Industry Integer Value Description Table (Continued).

232	rigwellp.pft	pro	0	Unknown
233	rigwellp.pft	pro	38	Gas
234	rigwellp.pft	pro	67	Oil
235	storagep.pft	hgt	0	Unknown
236	storagep.pft	len	0	Unknown
237	storagep.pft	loc	0	Unknown
238	storagep.pft	loc	4	Below Surface/Submerged/Underground
239	storagep.pft	loc	8	On Ground Surface
240	storagep.pft	loc	25	Suspended/Elevated Above Ground or Water Surface
241	storagep.pft	pro	0	Unknown
242	storagep.pft	pro	1	Aircraft
243	storagep.pft	pro	3	Ammunition
244	storagep.pft	pro	13	Chemical
245	storagep.pft	pro	17	Coal
246	storagep.pft	pro	19	Coke
247	storagep.pft	pro	33	Explosives
248	storagep.pft	pro	38	Gas
249	storagep.pft	pro	39	Gasoline
250	storagep.pft	pro	46	Gravel
251	storagep.pft	pro	67	Oil
252	storagep.pft	pro	82	Radioactive Material
253	storagep.pft	pro	87	Salt
254	storagep.pft	pro	88	Sand
255	storagep.pft	pro	95	Sewage
256	storagep.pft	pro	108	Stone
257	storagep.pft	pro	112	Uranium
258	storagep.pft	pro	116	Water
259	storagep.pft	pro	999	Other
260	storagep.pft	use	0	Unknown
261	storagep.pft	use	8	Military
262	storagep.pft	use	22	Joint Military/Civilian
263	storagep.pft	use	25	Federal
264	storagep.pft	use	49	Civilian/Public
265	storagep.pft	use	119	Berthing of Vessels
266	storagep.pft	wid	0	Unknown
267	bldindl.lft	bfc	0	Unknown
268	bldindl.lft	bfc	1	Fabrication Structures
269	bldindl.lft	bfc	21	Garage
270	bldindl.lft	bfc	22	Watermill/Gristmill
271	bldindl.lft	bfc	23	Wind Tunnel
272	bldindl.lft	bfc	24	Warehouse
273	bldindl.lft	bfc	25	Roundhouse
274	bldindl.lft	bfc	26	Railroad Storage/Repair Facility
275	bldindl.lft	bfc	27	Depot Terminal
276	bldindl.lft	bfc	29	Aircraft Maintenance Shop
277	bldindl.lft	bfc	30	Hangar
278	bldindl.lft	bfc	40	Telephone Switching Station

TABLE E-77. Industry Integer Value Description Table (Continued).

279	bldindl.lft	bfc	54	Service/Refueling Station
280	bldindl.lft	bfc	59	Research and Development Lab/Research Facility
281	bldindl.lft	bfc	71	Oil Mill (Vegetable)
282	bldindl.lft	bfc	72	Aerator
283	bldindl.lft	bfc	73	Carpentry
284	bldindl.lft	bfc	74	Saw-mill
285	bldindl.lft	bfc	75	Kiln/Oven
286	bldindl.lft	bfc	76	Signal Box/Railway Signalman's House
287	bldindl.lft	bfc	81	Maritime Station
288	bldindl.lft	bfc	83	Power Generation
289	bldindl.lft	bfc	84	Filtration Plant
290	bldindl.lft	bfc	85	News Paper Plant
291	bldindl.lft	bfc	86	Telephone Exchange (Main)
292	bldindl.lft	bfc	89	Processing/Treatment
293	bldindl.lft	bfc	90	Pumphouse
294	bldindl.lft	bfc	94	Railroad Station
295	bldindl.lft	bfc	102	Oil/Gas Facilities Building
296	bldindl.lft	bfc	104	Paper/Pulp Mill
297	bldindl.lft	bfc	110	Shipyard
298	bldindl.lft	bfc	112	Steel Mill
299	bldindl.lft	bfc	113	Weigh Scale (Highway)
300	bldindl.lft	bfc	116	Factory
301	bldindl.lft	bfc	120	Automobile Plant
302	bldindl.lft	bfc	124	Repair Facility
303	bldindl.lft	bfc	125	Barn/Machinery Shed
304	bldindl.lft	bfc	999	Other
305	bldindl.lft	exs	0	Unknown
306	bldindl.lft	exs	5	Under Construction
307	bldindl.lft	exs	6	Abandoned/Disused
308	bldindl.lft	exs	7	Destroyed
309	bldindl.lft	exs	28	Operational
310	bldindl.lft	hgt	0	Unknown
311	bldindl.lft	pro	0	Unknown
312	bldindl.lft	pro	1	Aircraft
313	bldindl.lft	pro	2	Aluminum
314	bldindl.lft	pro	3	Ammunition
315	bldindl.lft	pro	4	Ash
316	bldindl.lft	pro	5	Asphalt
317	bldindl.lft	pro	6	Basalt
318	bldindl.lft	pro	7	Bedrock
319	bldindl.lft	pro	8	Boulders
320	bldindl.lft	pro	9	Brick
321	bldindl.lft	pro	11	Cement
322	bldindl.lft	pro	12	Chalk
323	bldindl.lft	pro	13	Chemical
324	bldindl.lft	pro	14	Cinders
325	bldindl.lft	pro	16	Clay

TABLE E-77. Industry Integer Value Description Table (Continued).

326	bldindl.lft	pro	17	Coal
327	bldindl.lft	pro	18	Cobble
328	bldindl.lft	pro	19	Coke
329	bldindl.lft	pro	20	Composition
330	bldindl.lft	pro	21	Concrete
331	bldindl.lft	pro	22	Conglomerate
332	bldindl.lft	pro	23	Copper
333	bldindl.lft	pro	24	Coral
334	bldindl.lft	pro	26	Desalinated Water
335	bldindl.lft	pro	27	Diamonds
336	bldindl.lft	pro	29	Dolomite
337	bldindl.lft	pro	30	Earthen
338	bldindl.lft	pro	31	Electric
339	bldindl.lft	pro	32	Eroded Lands
340	bldindl.lft	pro	33	Explosives
341	bldindl.lft	pro	35	Food
342	bldindl.lft	pro	37	Fucus
343	bldindl.lft	pro	38	Gas
344	bldindl.lft	pro	39	Gasoline
345	bldindl.lft	pro	40	Glass
346	bldindl.lft	pro	42	Gold
347	bldindl.lft	pro	43	Granite
348	bldindl.lft	pro	45	Grass/Thatch
349	bldindl.lft	pro	46	Gravel
350	bldindl.lft	pro	48	Ground
351	bldindl.lft	pro	50	Heat
352	bldindl.lft	pro	51	Iron
353	bldindl.lft	pro	52	Lava
354	bldindl.lft	pro	54	Lead
355	bldindl.lft	pro	56	Lumber
356	bldindl.lft	pro	57	Macadam
357	bldindl.lft	pro	59	Manganese
358	bldindl.lft	pro	60	Marble
359	bldindl.lft	pro	61	Marl
360	bldindl.lft	pro	62	Masonry (Brick/Stone)
361	bldindl.lft	pro	63	Mattes
362	bldindl.lft	pro	64	Metal
363	bldindl.lft	pro	65	Mud
364	bldindl.lft	pro	67	Oil
365	bldindl.lft	pro	71	Paper
366	bldindl.lft	pro	72	Part Metal
367	bldindl.lft	pro	73	Pebbles
368	bldindl.lft	pro	74	Plastic
369	bldindl.lft	pro	77	Prestressed Concrete
370	bldindl.lft	pro	79	Pumice
371	bldindl.lft	pro	80	Quartz
372	bldindl.lft	pro	82	Radioactive Material
373	bldindl.lft	pro	83	Reinforced Concrete
374	bldindl.lft	pro	84	Rock/Rocky

TABLE E-77. Industry Integer Value Description Table (Continued).

375	bldindl.lft	pro	85	Rubber
376	bldindl.lft	pro	86	Rubble
377	bldindl.lft	pro	87	Salt
378	bldindl.lft	pro	88	Sand
379	bldindl.lft	pro	89	Sandstone
380	bldindl.lft	pro	90	Schist
381	bldindl.lft	pro	94	Seaweed
382	bldindl.lft	pro	95	Sewage
383	bldindl.lft	pro	98	Shingle
384	bldindl.lft	pro	99	Silt
385	bldindl.lft	pro	100	Silver
386	bldindl.lft	pro	101	Slag
387	bldindl.lft	pro	103	Snow/Ice
388	bldindl.lft	pro	104	Soil
389	bldindl.lft	pro	107	Steel
390	bldindl.lft	pro	108	Stone
391	bldindl.lft	pro	109	Sugar
392	bldindl.lft	pro	110	Travertin
393	bldindl.lft	pro	111	Tufa
394	bldindl.lft	pro	112	Uranium
395	bldindl.lft	pro	113	Vegetation Products
396	bldindl.lft	pro	114	Volcanic
397	bldindl.lft	pro	115	Volcanic Ash
398	bldindl.lft	pro	116	Water
399	bldindl.lft	pro	117	Wood
400	bldindl.lft	pro	118	Zinc
401	bldindl.lft	pro	119	Bauxite
402	bldindl.lft	pro	120	Bananas
403	bldindl.lft	pro	121	Cotton
404	bldindl.lft	pro	122	Bamboo
405	bldindl.lft	pro	123	Coffee
406	bldindl.lft	pro	124	Common fruit and/or nuts
407	bldindl.lft	pro	125	Palms
408	bldindl.lft	pro	126	Palmetto
409	bldindl.lft	pro	127	Tailings
410	bldindl.lft	pro	128	Refuse
411	bldindl.lft	pro	129	Tobacco
412	bldindl.lft	pro	130	None
413	bldindl.lft	pro	131	Personnel
414	bldindl.lft	pro	133	Telecommunications
415	bldindl.lft	pro	134	Fish
416	bldindl.lft	pro	997	Not Applicable
417	bldindl.lft	pro	998	Multiple
418	bldindl.lft	pro	999	Other
419	bldindl.lft	ssr	0	Unknown
420	bldindl.lft	ssr	6	Conical/Peaked/NUN
421	bldindl.lft	ssr	38	Curved/Round (Quonset)
422	bldindl.lft	ssr	40	Dome
423	bldindl.lft	ssr	41	Flat

TABLE E-77. Industry Integer Value Description Table (Continued).

424	bldindl.lft	ssr	42	Gable (Pitched)
425	bldindl.lft	ssr	47	Sawtooth
426	bldindl.lft	ssr	50	With Monitor
427	bldindl.lft	ssr	55	Flat with Monitor
428	bldindl.lft	ssr	64	Gable with Monitor
429	bldindl.lft	ssr	77	With Cupola
430	bldindl.lft	ssr	78	With Turret
431	bldindl.lft	ssr	79	With Tower
432	bldindl.lft	ssr	999	Other
433	bldindl.lft	use	0	Unknown
434	bldindl.lft	use	4	National
435	bldindl.lft	use	5	State
436	bldindl.lft	use	6	Private
437	bldindl.lft	use	8	Military
438	bldindl.lft	use	22	Joint Military/Civilian
439	bldindl.lft	use	23	International
440	bldindl.lft	use	43	Institutional
441	bldindl.lft	use	49	Civilian/Public
442	bldindl.lft	use	120	Recreational
443	bldindl.lft	use	130	Transportation
444	bldindl.lft	use	991	Not Applicable
445	bldindl.lft	use	999	Other
446	bldindl.lft	wid	0	Unknown
447	extractl.lft	ara	0	Unknown
448	extractl.lft	exs	0	Unknown
449	extractl.lft	exs	3	Reported
450	extractl.lft	exs	6	Abandoned/Disused
451	extractl.lft	exs	28	Operational
452	extractl.lft	min	0	Unknown
453	extractl.lft	min	2	Horizontal Shaft
454	extractl.lft	min	3	Open Pit
455	extractl.lft	min	4	Placer
456	extractl.lft	min	5	Prospect
457	extractl.lft	min	6	Strip
458	extractl.lft	min	7	Vertical Shaft
459	extractl.lft	min	8	Peat Cuttings
460	extractl.lft	pro	0	Unknown
461	extractl.lft	pro	16	Clay
462	extractl.lft	pro	17	Coal
463	extractl.lft	pro	23	Copper
464	extractl.lft	pro	42	Gold
465	extractl.lft	pro	46	Gravel
466	extractl.lft	pro	51	Iron
467	extractl.lft	pro	54	Lead
468	extractl.lft	pro	84	Rock/Rocky
469	extractl.lft	pro	87	Salt
470	extractl.lft	pro	88	Sand
471	extractl.lft	pro	100	Silver
472	extractl.lft	pro	112	Uranium

TABLE E-77. Industry Integer Value Description Table (Continued).

473	extractl.lft	pro	118	Zinc
474	extractl.lft	pro	119	Bauxite
475	extractl.lft	pro	999	Other
476	extractl.lft	wid	0	Unknown
477	indl.lft	loc	0	Unknown
478	indl.lft	loc	8	On Ground Surface
479	indl.lft	loc	25	Suspended/Elevated Above Ground or Water Surface
480	bldinda.aft	ara	0	Unknown
481	bldinda.aft	bfc	0	Unknown
482	bldinda.aft	bfc	1	Fabrication Structures
483	bldinda.aft	bfc	21	Garage
484	bldinda.aft	bfc	22	Watermill/Gristmill
485	bldinda.aft	bfc	23	Wind Tunnel
486	bldinda.aft	bfc	24	Warehouse
487	bldinda.aft	bfc	25	Roundhouse
488	bldinda.aft	bfc	26	Railroad Storage/Repair Facility
489	bldinda.aft	bfc	27	Depot Terminal
490	bldinda.aft	bfc	29	Aircraft Maintenance Shop
491	bldinda.aft	bfc	30	Hangar
492	bldinda.aft	bfc	40	Telephone Switching Station
493	bldinda.aft	bfc	54	Service/Refueling Station
494	bldinda.aft	bfc	59	Research and Development Lab/Research Facility
495	bldinda.aft	bfc	71	Oil Mill (Vegetable)
496	bldinda.aft	bfc	72	Aerator
497	bldinda.aft	bfc	73	Carpentry
498	bldinda.aft	bfc	74	Saw-mill
499	bldinda.aft	bfc	75	Kiln/Oven
500	bldinda.aft	bfc	76	Signal Box/Railway Signalman's House
501	bldinda.aft	bfc	81	Maritime Station
502	bldinda.aft	bfc	83	Power Generation
503	bldinda.aft	bfc	84	Filtration Plant
504	bldinda.aft	bfc	85	News Paper Plant
505	bldinda.aft	bfc	86	Telephone Exchange (Main)
506	bldinda.aft	bfc	90	Pumphouse
507	bldinda.aft	bfc	102	Oil/Gas Facilities Building
508	bldinda.aft	bfc	104	Paper/Pulp Mill
509	bldinda.aft	bfc	110	Shipyard
510	bldinda.aft	bfc	112	Steel Mill
511	bldinda.aft	bfc	113	Weigh Scale (Highway)
512	bldinda.aft	bfc	116	Factory
513	bldinda.aft	bfc	120	Automobile Plant
514	bldinda.aft	bfc	124	Repair Facility
515	bldinda.aft	bfc	125	Barn/Machinery Shed
516	bldinda.aft	bfc	999	Other
517	bldinda.aft	exs	0	Unknown
518	bldinda.aft	exs	5	Under Construction

TABLE E-77. Industry Integer Value Description Table (Continued).

519	bldinda.aft	exs	6	Abandoned/Disused
520	bldinda.aft	exs	7	Destroyed
521	bldinda.aft	exs	28	Operational
522	bldinda.aft	hgt	0	Unknown
523	bldinda.aft	pro	0	Unknown
524	bldinda.aft	pro	1	Aircraft
525	bldinda.aft	pro	2	Aluminum
526	bldinda.aft	pro	3	Ammunition
527	bldinda.aft	pro	4	Ash
528	bldinda.aft	pro	5	Asphalt
529	bldinda.aft	pro	6	Basalt
530	bldinda.aft	pro	7	Bedrock
531	bldinda.aft	pro	8	Boulders
532	bldinda.aft	pro	9	Brick
533	bldinda.aft	pro	11	Cement
534	bldinda.aft	pro	12	Chalk
535	bldinda.aft	pro	13	Chemical
536	bldinda.aft	pro	14	Cinders
537	bldinda.aft	pro	16	Clay
538	bldinda.aft	pro	17	Coal
539	bldinda.aft	pro	18	Cobble
540	bldinda.aft	pro	19	Coke
541	bldinda.aft	pro	20	Composition
542	bldinda.aft	pro	21	Concrete
543	bldinda.aft	pro	22	Conglomerate
544	bldinda.aft	pro	23	Copper
545	bldinda.aft	pro	24	Coral
546	bldinda.aft	pro	26	Desalinated Water
547	bldinda.aft	pro	27	Diamonds
548	bldinda.aft	pro	29	Dolomite
549	bldinda.aft	pro	30	Earthen
550	bldinda.aft	pro	31	Electric
551	bldinda.aft	pro	32	Eroded Lands
552	bldinda.aft	pro	33	Explosives
553	bldinda.aft	pro	35	Food
554	bldinda.aft	pro	37	Fucus
555	bldinda.aft	pro	38	Gas
556	bldinda.aft	pro	39	Gasoline
557	bldinda.aft	pro	40	Glass
558	bldinda.aft	pro	42	Gold
559	bldinda.aft	pro	43	Granite
560	bldinda.aft	pro	45	Grass/Thatch
561	bldinda.aft	pro	46	Gravel
562	bldinda.aft	pro	48	Ground
563	bldinda.aft	pro	50	Heat
564	bldinda.aft	pro	51	Iron
565	bldinda.aft	pro	52	Lava
566	bldinda.aft	pro	54	Lead
567	bldinda.aft	pro	56	Lumber

TABLE E-77. Industry Integer Value Description Table (Continued).

568	bldinda.aft	pro	57	Macadam
569	bldinda.aft	pro	59	Manganese
570	bldinda.aft	pro	60	Marble
571	bldinda.aft	pro	61	Marl
572	bldinda.aft	pro	62	Masonry (Brick/Stone)
573	bldinda.aft	pro	63	Mattes
574	bldinda.aft	pro	64	Metal
575	bldinda.aft	pro	65	Mud
576	bldinda.aft	pro	67	Oil
577	bldinda.aft	pro	71	Paper
578	bldinda.aft	pro	72	Part Metal
579	bldinda.aft	pro	73	Pebbles
580	bldinda.aft	pro	74	Plastic
581	bldinda.aft	pro	77	Prestressed Concrete
582	bldinda.aft	pro	79	Pumice
583	bldinda.aft	pro	80	Quartz
584	bldinda.aft	pro	82	Radioactive Material
585	bldinda.aft	pro	83	Reinforced Concrete
586	bldinda.aft	pro	84	Rock/Rocky
587	bldinda.aft	pro	85	Rubber
588	bldinda.aft	pro	86	Rubble
589	bldinda.aft	pro	87	Salt
590	bldinda.aft	pro	88	Sand
591	bldinda.aft	pro	89	Sandstone
592	bldinda.aft	pro	90	Schist
593	bldinda.aft	pro	94	Seaweed
594	bldinda.aft	pro	95	Sewage
595	bldinda.aft	pro	98	Shingle
596	bldinda.aft	pro	99	Silt
597	bldinda.aft	pro	100	Silver
598	bldinda.aft	pro	101	Slag
599	bldinda.aft	pro	103	Snow/Ice
600	bldinda.aft	pro	104	Soil
601	bldinda.aft	pro	107	Steel
602	bldinda.aft	pro	108	Stone
603	bldinda.aft	pro	109	Sugar
604	bldinda.aft	pro	110	Travertin
605	bldinda.aft	pro	111	Tufa
606	bldinda.aft	pro	112	Uranium
607	bldinda.aft	pro	113	Vegetation Products
608	bldinda.aft	pro	114	Volcanic
609	bldinda.aft	pro	115	Volcanic Ash
610	bldinda.aft	pro	116	Water
611	bldinda.aft	pro	117	Wood
612	bldinda.aft	pro	118	Zinc
613	bldinda.aft	pro	119	Bauxite
614	bldinda.aft	pro	120	Bananas
615	bldinda.aft	pro	121	Cotton
616	bldinda.aft	pro	122	Bamboo

TABLE E-77. Industry Integer Value Description Table (Continued).

617	bldinda.aft	pro	123	Coffee
618	bldinda.aft	pro	124	Common fruit and/or nuts
619	bldinda.aft	pro	125	Palms
620	bldinda.aft	pro	126	Palmetto
621	bldinda.aft	pro	127	Tailings
622	bldinda.aft	pro	128	Refuse
623	bldinda.aft	pro	129	Tobacco
624	bldinda.aft	pro	130	None
625	bldinda.aft	pro	131	Personnel
626	bldinda.aft	pro	133	Telecommunications
627	bldinda.aft	pro	134	Fish
628	bldinda.aft	pro	997	Not Applicable
629	bldinda.aft	pro	998	Multiple
630	bldinda.aft	pro	999	Other
631	bldinda.aft	ssr	0	Unknown
632	bldinda.aft	ssr	6	Conical/Peaked/NUN
633	bldinda.aft	ssr	38	Curved/Round (Quanset)
634	bldinda.aft	ssr	40	Dome
635	bldinda.aft	ssr	41	Flat
636	bldinda.aft	ssr	42	Gable (Pitched)
637	bldinda.aft	ssr	47	Sawtooth
638	bldinda.aft	ssr	50	With Monitor
639	bldinda.aft	ssr	55	Flat with Monitor
640	bldinda.aft	ssr	64	Gable with Monitor
641	bldinda.aft	ssr	77	With Cupola
642	bldinda.aft	ssr	78	With Turret
643	bldinda.aft	ssr	79	With Tower
644	bldinda.aft	ssr	999	Other
645	bldinda.aft	use	0	Unknown
646	bldinda.aft	use	4	National
647	bldinda.aft	use	5	State
648	bldinda.aft	use	6	Private
649	bldinda.aft	use	8	Military
650	bldinda.aft	use	22	Joint Military/Civilian
651	bldinda.aft	use	23	International
652	bldinda.aft	use	43	Institutional
653	bldinda.aft	use	49	Civilian/Public
654	bldinda.aft	use	120	Recreational
655	bldinda.aft	use	130	Transportation
656	bldinda.aft	use	991	Not Applicable
657	bldinda.aft	use	999	Other
658	cmpxinda.aft	ara	0	Unknown
659	cmpxinda.aft	bfc	0	Unknown
660	cmpxinda.aft	bfc	1	Fabrication Structures
661	cmpxinda.aft	bfc	21	Garage
662	cmpxinda.aft	bfc	22	Watermill/Gristmill
663	cmpxinda.aft	bfc	23	Wind Tunnel
664	cmpxinda.aft	bfc	24	Warehouse
665	cmpxinda.aft	bfc	25	Roundhouse

TABLE E-77. Industry Integer Value Description Table (Continued).

666	cmpxinda.aft	bfc	26	Railroad Storage/Repair Facility
667	cmpxinda.aft	bfc	27	Depot Terminal
668	cmpxinda.aft	bfc	29	Aircraft Maintenance Shop
669	cmpxinda.aft	bfc	30	Hangar
670	cmpxinda.aft	bfc	40	Telephone Switching Station
671	cmpxinda.aft	bfc	54	Service/Refueling Station
672	cmpxinda.aft	bfc	59	Research and Development Lab/Research Facility
673	cmpxinda.aft	bfc	71	Oil Mill (Vegetable)
674	cmpxinda.aft	bfc	72	Aerator
675	cmpxinda.aft	bfc	73	Carpentry
676	cmpxinda.aft	bfc	74	Saw-mill
677	cmpxinda.aft	bfc	75	Kiln/Oven
678	cmpxinda.aft	bfc	76	Signal Box/Railway Signalman's House
679	cmpxinda.aft	bfc	81	Maritime Station
680	cmpxinda.aft	bfc	83	Power Generation
681	cmpxinda.aft	bfc	84	Filtration Plant
682	cmpxinda.aft	bfc	85	News Paper Plant
683	cmpxinda.aft	bfc	86	Telephone Exchange (Main)
684	cmpxinda.aft	bfc	90	Pumphouse
685	cmpxinda.aft	bfc	102	Oil/Gas Facilities Building
686	cmpxinda.aft	bfc	104	Paper/Pulp Mill
687	cmpxinda.aft	bfc	110	Shipyard
688	cmpxinda.aft	bfc	112	Steel Mill
689	cmpxinda.aft	bfc	113	Weigh Scale (Highway)
690	cmpxinda.aft	bfc	116	Factory
691	cmpxinda.aft	bfc	120	Automobile Plant
692	cmpxinda.aft	bfc	124	Repair Facility
693	cmpxinda.aft	bfc	125	Barn/Machinery Shed
694	cmpxinda.aft	bfc	999	Other
695	cmpxinda.aft	exs	0	Unknown
696	cmpxinda.aft	exs	5	Under Construction
697	cmpxinda.aft	exs	6	Abandoned/Disused
698	cmpxinda.aft	exs	7	Destroyed
699	cmpxinda.aft	exs	28	Operational
700	cmpxinda.aft	hgt	0	Unknown
701	cmpxinda.aft	loc	0	Unknown
702	cmpxinda.aft	loc	4	Below Surface/Submerged/Underground
703	cmpxinda.aft	loc	8	On Ground Surface
704	cmpxinda.aft	loc	25	Suspended/Elevated Above Ground or Water Surface
705	cmpxinda.aft	pro	0	Unknown
706	cmpxinda.aft	pro	1	Aircraft
707	cmpxinda.aft	pro	2	Aluminum
708	cmpxinda.aft	pro	3	Ammunition
709	cmpxinda.aft	pro	4	Ash
710	cmpxinda.aft	pro	5	Asphalt

TABLE E-77. Industry Integer Value Description Table (Continued).

711	cmpxinda.aft	pro	6	Basalt
712	cmpxinda.aft	pro	7	Bedrock
713	cmpxinda.aft	pro	8	Boulders
714	cmpxinda.aft	pro	9	Brick
715	cmpxinda.aft	pro	11	Cement
716	cmpxinda.aft	pro	12	Chalk
717	cmpxinda.aft	pro	13	Chemical
718	cmpxinda.aft	pro	14	Cinders
719	cmpxinda.aft	pro	16	Clay
720	cmpxinda.aft	pro	17	Coal
721	cmpxinda.aft	pro	18	Cobble
722	cmpxinda.aft	pro	19	Coke
723	cmpxinda.aft	pro	20	Composition
724	cmpxinda.aft	pro	21	Concrete
725	cmpxinda.aft	pro	22	Conglomerate
726	cmpxinda.aft	pro	23	Copper
727	cmpxinda.aft	pro	24	Coral
728	cmpxinda.aft	pro	26	Desalinated Water
729	cmpxinda.aft	pro	27	Diamonds
730	cmpxinda.aft	pro	29	Dolomite
731	cmpxinda.aft	pro	30	Earthen
732	cmpxinda.aft	pro	31	Electric
733	cmpxinda.aft	pro	32	Eroded Lands
734	cmpxinda.aft	pro	33	Explosives
735	cmpxinda.aft	pro	35	Food
736	cmpxinda.aft	pro	37	Fucus
737	cmpxinda.aft	pro	38	Gas
738	cmpxinda.aft	pro	39	Gasoline
739	cmpxinda.aft	pro	40	Glass
740	cmpxinda.aft	pro	42	Gold
741	cmpxinda.aft	pro	43	Granite
742	cmpxinda.aft	pro	45	Grass/Thatch
743	cmpxinda.aft	pro	46	Gravel
744	cmpxinda.aft	pro	48	Ground
745	cmpxinda.aft	pro	50	Heat
746	cmpxinda.aft	pro	51	Iron
747	cmpxinda.aft	pro	52	Lava
748	cmpxinda.aft	pro	54	Lead
749	cmpxinda.aft	pro	56	Lumber
750	cmpxinda.aft	pro	57	Macadam
751	cmpxinda.aft	pro	59	Manganese
752	cmpxinda.aft	pro	60	Marble
753	cmpxinda.aft	pro	61	Marl
754	cmpxinda.aft	pro	62	Masonry (Brick/Stone)
755	cmpxinda.aft	pro	63	Mattes
756	cmpxinda.aft	pro	64	Metal
757	cmpxinda.aft	pro	65	Mud
758	cmpxinda.aft	pro	67	Oil
759	cmpxinda.aft	pro	71	Paper

TABLE E-77. Industry Integer Value Description Table (Continued).

760	cmpxinda.aft	pro	72	Part Metal
761	cmpxinda.aft	pro	73	Pebbles
762	cmpxinda.aft	pro	74	Plastic
763	cmpxinda.aft	pro	77	Prestressed Concrete
764	cmpxinda.aft	pro	79	Pumice
765	cmpxinda.aft	pro	80	Quartz
766	cmpxinda.aft	pro	82	Radioactive Material
767	cmpxinda.aft	pro	83	Reinforced Concrete
768	cmpxinda.aft	pro	84	Rock/Rocky
769	cmpxinda.aft	pro	85	Rubber
770	cmpxinda.aft	pro	86	Rubble
771	cmpxinda.aft	pro	87	Salt
772	cmpxinda.aft	pro	88	Sand
773	cmpxinda.aft	pro	89	Sandstone
774	cmpxinda.aft	pro	90	Schist
775	cmpxinda.aft	pro	94	Seaweed
776	cmpxinda.aft	pro	95	Sewage
777	cmpxinda.aft	pro	98	Shingle
778	cmpxinda.aft	pro	99	Silt
779	cmpxinda.aft	pro	100	Silver
780	cmpxinda.aft	pro	101	Slag
781	cmpxinda.aft	pro	103	Snow/Ice
782	cmpxinda.aft	pro	104	Soil
783	cmpxinda.aft	pro	107	Steel
784	cmpxinda.aft	pro	108	Stone
785	cmpxinda.aft	pro	109	Sugar
786	cmpxinda.aft	pro	110	Travertin
787	cmpxinda.aft	pro	111	Tufa
788	cmpxinda.aft	pro	112	Uranium
789	cmpxinda.aft	pro	113	Vegetation Products
790	cmpxinda.aft	pro	114	Volcanic
791	cmpxinda.aft	pro	115	Volcanic Ash
792	cmpxinda.aft	pro	116	Water
793	cmpxinda.aft	pro	117	Wood
794	cmpxinda.aft	pro	118	Zinc
795	cmpxinda.aft	pro	119	Bauxite
796	cmpxinda.aft	pro	120	Bananas
797	cmpxinda.aft	pro	121	Cotton
798	cmpxinda.aft	pro	122	Bamboo
799	cmpxinda.aft	pro	123	Coffee
800	cmpxinda.aft	pro	124	Common fruit and/or nuts
801	cmpxinda.aft	pro	125	Palms
802	cmpxinda.aft	pro	126	Palmetto
803	cmpxinda.aft	pro	127	Tailings
804	cmpxinda.aft	pro	128	Refuse
805	cmpxinda.aft	pro	129	Tobacco
806	cmpxinda.aft	pro	130	None
807	cmpxinda.aft	pro	131	Personnel
808	cmpxinda.aft	pro	133	Telecommunications

TABLE E-77. Industry Integer Value Description Table (Continued).

809	cmpxinda.aft	pro	134	Fish
810	cmpxinda.aft	pro	997	Not Applicable
811	cmpxinda.aft	pro	998	Multiple
812	cmpxinda.aft	pro	999	Other
813	cmpxinda.aft	use	0	Unknown
814	cmpxinda.aft	use	4	National
815	cmpxinda.aft	use	5	State
816	cmpxinda.aft	use	6	Private
817	cmpxinda.aft	use	8	Military
818	cmpxinda.aft	use	22	Joint Military/Civilian
819	cmpxinda.aft	use	23	International
820	cmpxinda.aft	use	43	Institutional
821	cmpxinda.aft	use	49	Civilian/Public
822	cmpxinda.aft	use	57	Marine
823	cmpxinda.aft	use	120	Recreational
824	cmpxinda.aft	use	130	Transportation
825	cmpxinda.aft	use	991	Not Applicable
826	cmpxinda.aft	use	999	Other
827	disposea.aft	ara	0	Unknown
828	disposea.aft	exs	0	Unknown
829	disposea.aft	exs	6	Abandoned/Disused
830	disposea.aft	exs	28	Operational
831	disposea.aft	pro	0	Unknown
832	disposea.aft	pro	101	Slag
833	disposea.aft	pro	127	Tailings
834	disposea.aft	pro	128	Refuse
835	disposea.aft	pro	999	Other
836	extracta.aft	ara	0	Unknown
837	extracta.aft	exs	0	Unknown
838	extracta.aft	exs	3	Reported
839	extracta.aft	exs	6	Abandoned/Disused
840	extracta.aft	exs	28	Operational
841	extracta.aft	min	0	Unknown
842	extracta.aft	min	2	Horizontal Shaft
843	extracta.aft	min	3	Open Pit
844	extracta.aft	min	4	Placer
845	extracta.aft	min	5	Prospect
846	extracta.aft	min	6	Strip
847	extracta.aft	min	7	Vertical Shaft
848	extracta.aft	min	8	Peat Cuttings
849	extracta.aft	pro	0	Unknown
850	extracta.aft	pro	16	Clay
851	extracta.aft	pro	17	Coal
852	extracta.aft	pro	23	Copper
853	extracta.aft	pro	42	Gold
854	extracta.aft	pro	46	Gravel
855	extracta.aft	pro	51	Iron
856	extracta.aft	pro	54	Lead
857	extracta.aft	pro	84	Rock/Rocky

TABLE E-77. Industry Integer Value Description Table (Continued).

858	extracta.aft	pro	87	Salt
859	extracta.aft	pro	88	Sand
860	extracta.aft	pro	100	Silver
861	extracta.aft	pro	112	Uranium
862	extracta.aft	pro	118	Zinc
863	extracta.aft	pro	119	Bauxite
864	extracta.aft	pro	999	Other
865	powrinda.aft	ara	0	Unknown
866	powrinda.aft	len	0	Unknown
867	processa.aft	ara	0	Unknown
868	processa.aft	exs	0	Unknown
869	processa.aft	exs	6	Abandoned/Disused
870	processa.aft	exs	28	Operational
871	processa.aft	pro	0	Unknown
872	processa.aft	pro	2	Aluminum
873	processa.aft	pro	5	Asphalt
874	processa.aft	pro	9	Brick
875	processa.aft	pro	11	Cement
876	processa.aft	pro	13	Chemical
877	processa.aft	pro	17	Coal
878	processa.aft	pro	19	Coke
879	processa.aft	pro	21	Concrete
880	processa.aft	pro	23	Copper
881	processa.aft	pro	33	Explosives
882	processa.aft	pro	35	Food
883	processa.aft	pro	38	Gas
884	processa.aft	pro	39	Gasoline
885	processa.aft	pro	40	Glass
886	processa.aft	pro	42	Gold
887	processa.aft	pro	50	Heat
888	processa.aft	pro	51	Iron
889	processa.aft	pro	54	Lead
890	processa.aft	pro	56	Lumber
891	processa.aft	pro	64	Metal
892	processa.aft	pro	67	Oil
893	processa.aft	pro	71	Paper
894	processa.aft	pro	74	Plastic
895	processa.aft	pro	82	Radioactive Material
896	processa.aft	pro	85	Rubber
897	processa.aft	pro	95	Sewage
898	processa.aft	pro	100	Silver
899	processa.aft	pro	103	Snow/Ice
900	processa.aft	pro	107	Steel
901	processa.aft	pro	112	Uranium
902	processa.aft	pro	113	Vegetation Products
903	processa.aft	pro	116	Water
904	processa.aft	pro	118	Zinc
905	processa.aft	pro	129	Tobacco
906	processa.aft	pro	134	Fish

TABLE E-77. Industry Integer Value Description Table (Continued).

907	processa.aft	pro	999	Other
908	storagea.aft	hgt	0	Unknown
909	storagea.aft	loc	0	Unknown
910	storagea.aft	loc	4	Below Surface/Submerged/Underground
911	storagea.aft	loc	8	On Ground Surface
912	storagea.aft	pro	0	Unknown
913	storagea.aft	pro	1	Aircraft
914	storagea.aft	pro	3	Ammunition
915	storagea.aft	pro	13	Chemical
916	storagea.aft	pro	17	Coal
917	storagea.aft	pro	19	Coke
918	storagea.aft	pro	33	Explosives
919	storagea.aft	pro	38	Gas
920	storagea.aft	pro	39	Gasoline
921	storagea.aft	pro	46	Gravel
922	storagea.aft	pro	67	Oil
923	storagea.aft	pro	82	Radioactive Material
924	storagea.aft	pro	87	Salt
925	storagea.aft	pro	88	Sand
926	storagea.aft	pro	95	Sewage
927	storagea.aft	pro	108	Stone
928	storagea.aft	pro	112	Uranium
929	storagea.aft	pro	116	Water
930	storagea.aft	pro	999	Other
931	storagea.aft	use	0	Unknown
932	storagea.aft	use	8	Military
933	storagea.aft	use	22	Joint Military/Civilian
934	storagea.aft	use	49	Civilian/Public
935	storagea.aft	use	119	Berthing of Vessels
936	symbol.rat	fon	1	Machine Default
937	symbol.rat	sty	1	Kern
938	symbol.rat	sty	2	Proportional
939	symbol.rat	sty	3	Constant
940	symbol.rat	col	1	Black
941	symbol.rat	col	4	Blue
942	symbol.rat	col	9	Red-Brown
943	symbol.rat	col	12	Magenta

E.3.7 Physiography Coverage.

TABLE E-78. Content and format for Physiography Coverage Feature Class Schema Table.

Thematic Layer: Physiography
Coverage Name: **phys**
Table Description: Physiography Feature Class Schema Table
Table Name: **fcs**
dq Layer Number: 5

```
{Header length}L;
Physiography Feature Class Schema Table;-;
id=I,1,P,Row Identifier,-,-,-,:
feature_class=T,8,N,Name of Feature Class,-,-,-,:
table1=T,12,N,First Table,-,-,-,:
table1_key=T,16,N,Column Name in First Table,-,-,-,:
table2=T,12,N,Second Table,-,-,-,:
table2_key=T,16,N,Column Name in Second Table,-,-,-,:;
```

1	cavep	cavep.pft	end_id	end	id
2	cavep	end	id	cavep.pft	end_id
3	bluffl	bluffl.lft	id	bluffl.ljt	bluffl.lft_id
4	bluffl	bluffl.ljt	edg_id	edg	id
5	bluffl	edg	id	bluffl.ljt	edg_id
6	bluffl	bluffl.ljt	bluffl.lft_id	bluffl.lft	id
7	embankl	embankl.lft	id	embankl.ljt	embankl.lft_id
8	embankl	embankl.ljt	edg_id	edg	id
9	embankl	edg	id	embankl.ljt	edg_id
10	embankl	embankl.ljt	embankl.lft_id	embankl.lft	id
11	faultl	faultl.lft	id	faultl.ljt	faultl.lft_id
12	faultl	faultl.ljt	edg_id	edg	id
13	faultl	edg	id	faultl.ljt	edg_id
14	faultl	faultl.ljt	faultl.lft_id	faultl.lft	id
15	embanka	embanka.aft	id	embanka.ajt	embanka.aft_id
16	embanka	embanka.ajt	fac_id	fac	id
17	embanka	fac	id	embanka.ajt	fac_id
18	embanka	embanka.ajt	embanka.aft_id	embanka.aft	id
19	grounda	grounda.aft	id	grounda.ajt	grounda.aft_id
20	grounda	grounda.ajt	fac_id	fac	id
21	grounda	fac	id	grounda.ajt	fac_id
22	grounda	grounda.ajt	grounda.aft_id	grounda.aft	id
23	lndfrma	lndfrma.aft	id	lndfrma.ajt	lndfrma.aft_id
24	lndfrma	lndfrma.ajt	fac_id	fac	id
25	lndfrma	fac	id	lndfrma.ajt	fac_id
26	lndfrma	lndfrma.ajt	lndfrma.aft_id	lndfrma.aft	id
27	dqpoint	dqpoint.pft	end_id	end	id
28	dqpoint	end	id	dqpoint.pft	end_id
29	dqpoint	dqpoint.pft	dqdescr_id	dqdescr.rat	id

TABLE E-78. Content and format for Physiography Coverage Feature Class Schema Table (Continued).

30	dqline	dqline.lft	id	dqline.ljt	dqline.lft_id
31	dqline	dqline.ljt	edg_id	edg	id
32	dqline	edg	id	dqline.ljt	edg_id
33	dqline	dqline.ljt	dqline.lft_id	dqline.lft	id
34	dqline	dqline.lft	dqdescr_id	dqdescr.rat	id
35	dqarea	dqarea.aft	id	dqarea.ajt	dqarea.aft_id
36	dqarea	dqarea.ajt	fac_id	fac	id
37	dqarea	fac	id	dqarea.ajt	fac_id
38	dqarea	dqarea.ajt	dqarea.aft_id	dqarea.aft	id
39	dqarea	dqarea.aft	dqdescr_id	dqdescr.rat	id
40	dqtext	dqtext.tft	txt_id	txt	id
41	dqtext	txt	id	dqtext.tft	txt_id
42	phystxt	phystxt.tft	txt_id	txt	id
43	phystxt	txt	id	phystxt.tft	txt_id
44	phystxt	phystxt.tft	symbol_id	symbol.rat	symbol_id

TABLE E-79. Cave Point Feature Table.

Thematic Layer: Physiography
Coverage Name: **phys**
Table Description: Cave Point Feature Table
Table Name: **cavep.pft**
dq Layer Number: 5

```
{Header length}L;
Cave Point Feature Table;-;
id=I,1,P,Row Identifier,-,-,-,:
f_code=T,5,N,FACC Feature Code,char.vdt,-,-,:
ara=S,1,N,Area Coverage Attribute (sq. meters),int.vdt,-,-,:
arh=S,1,N,Area Coverage Attribute Hectares,-,-,-,:
nam=T,*,N,Name,char.vdt,-,-,:
tile_id=S,1,N,Tile Reference ID,-,tile1_id.pti,-,:
end_id=I,1,N,Entity Node Primitive ID,-,end1_id.pti,-,:;
```

Column	**Description**	**Value**	**Value Meaning**	**Applicable f_code for Each Attribute Value**
id	Row Identifier	Sequential beginning with 1		
f_code	FACC Feature Code			
		DB030	Cave	
ara	Area Coverage Attribute (sq. meters)			
		-32768	Null	DB030 **arh**>0
		0	Unknown	DB030 **arh**=-32768
		>0	Actual Value	DB030 **arh**=-32768
arh	Area Coverage Attribute Hectares			
		-32768	Null	DB030 **ara**>=0
		>0	Actual Value	DB030 **ara**=-32768
nam	Name			
		Character text string		DB030
		"UNK" (no name present for feature)		DB030

TABLE E-80. Bluff Line Feature Table.

Thematic Layer: Physiography
Coverage Name: **phys**
Table Description: Bluff Line Feature Table
Table Name: **bluffl.lft**
dq Layer Number: 5

```
{Header length}L;
Bluff Line Feature Table;-;
id=I,1,P,Row Identifier,-,-,-,:
f_code=T,5,N,FACC Feature Code,char.vdt,-,-,:
pfh=S,1,N,Predominant Feature Height (meters),int.vdt,-,-,:
sgc=S,1,N,Gradient/Slope (percent),int.vdt,-,-,:;
```

Column	Description	Value	Value Meaning	Applicable f_code for Each Attribute Value
id	Row Identifier	Sequential beginning with 1		
f_code	FACC Feature Code			
		DB010	Bluff/Cliff/Escarpment	
pfh	Predominant Feature Height (meters)			
		0	Unknown	DB010
		>0	Actual Value	DB010
sgc	Gradient/Slope (percent)			
		0	Unknown	DB010
		>0	Actual Value	DB010

TABLE E-81. Embankment Line Feature Table.

Thematic Layer: Physiography
Coverage Name: **phys**
Table Description: Embankment Line Feature Table
Table Name: **embankl.lft**
dq Layer Number: 5

```
{Header length}L;
Embankment Line Feature Table;-;
id=I,1,P,Row Identifier,-,-,-,:
f_code=T,5,N,FACC Feature Code,char.vdt,f_code2.lti,-,:
dep=F,1,N,Depth Below Surface Level (meters),-,-,-,:
hgt=S,1,N,Height Above Surface Level (meters),int.vdt,-,-,:
use=S,1,N,Usage,int.vdt,-,-,:
vrr=S,1,N,Vertical Reference Category,int.vdt,-,-,:
wid=S,1,N,Width (meters),int.vdt,-,-,:;
```

Column	Description	Value	Value Meaning	Applicable f_code for Each Attribute Value
id	Row Identifier	Sequential beginning with 1		
f_code	FACC Feature Code			
		DB070	Cut	
		DB090	Embankment/Fill	
dep	Depth Below Surface Level (meters)			
		NaN	Null	DB090
		0.0	Unknown	DB070
		>0.0	Actual Value	DB070
hgt	Height Above Surface Level (meters)			
		-32768	Null	DB070
		0	Unknown	DB090
		>0	Actual Value	DB090
use	Usage			
		-32768	Null	DB070
		0	Unknown	DB090
		8	Military	DB090
		69	Levee/Dike	DB090
		127	as a Causeway	DB090
		136	as a Fill	DB090
		999	Other	DB090

TABLE E-81. Embankment Line Feature Table (Continued).

vrr	Vertical Reference Category			
		-32768	Null	DB070
		0	Unknown	DB090
		1	Above Surface/Does not cover (At High Water)	DB090
		8	Covers and Uncovers	DB090
		9	Not Applicable	DB090
wid	Width (meters)			
		-32768	Null	DB070
		0	Unknown	DB090
		>0	Actual Value	DB090

TABLE E-82. Fault Line Feature Table.

Thematic Layer: Physiography
Coverage Name: **phys**
Table Description: Fault Line Feature Table
Table Name: **faultl.lft**
dq Layer Number: 5

```
{Header length}L;
Fault Line Feature Table;-;
id=I,1,P,Row Identifier,-,-,-,:
f_code=T,5,N,FACC Feature Code,char.vdt,-,-,:
nam=T,*,N,Name,char.vdt,-,-,:
wid=S,1,N,Width (meters),int.vdt,-,-,:;
```

Column	**Description**	**Value**	**Value Meaning**	**Applicable f_code for Each Attribute Value**
id	Row Identifier	Sequential beginning with 1		
f_code	FACC Feature Code			
		DB110	Fault	
nam	Name			
		Character text string		DB110
		"UNK" (no name present for feature)		DB110
wid	Width (meters)			
		0	Unknown	DB110
		>0	Actual Value	DB110

TABLE E-83. Embankment Area Feature Table.

Thematic Layer: Physiography
Coverage Name: **phys**
Table Description: Embankment Area Feature Table
Table Name: **embanka.aft**
dq Layer Number: 5

```
{Header length}L;
Embankment Area Feature Table;-;
id=I,1,P,Row Identifier,-,-,-,:
f_code=T,5,N,FACC Feature Code,char.vdt,-,-,:
hgt=S,1,N,Height Above Surface Level (meters),int.vdt,-,-,:
nam=T,*,N,Name,char.vdt,-,-,:
use=S,1,N,Usage,int.vdt,-,-,:
vrr=S,1,N,Vertical Reference Category,int.vdt,-,-,:;
```

Column	**Description**	**Value**	**Value Meaning**	**Applicable f_code for Each Attribute Value**
id	Row Identifier	Sequential beginning with 1		
f_code	FACC Feature Code			
		DB090	Embankment/Fill	
hgt	Height Above Surface Level (meters)			
		0	Unknown	DB090
		>0	Actual Value	DB090
nam	Name			
		Character text string		DB090
		"UNK" (no name present for feature)		DB090
use	Usage			
		0	Unknown	DB090
		69	Levee/Dike	DB090
		127	as a Causeway	DB090
		136	as a Fill	DB090
		999	Other	DB090
vrr	Vertical Reference Category			
		0	Unknown	DB090
		1	Above Surface/Does not cover (at High Water)	DB090
		8	Covers and Uncovers	DB090
		9	Not Applicable	DB090

TABLE E-84. Ground Area Feature Table.

Thematic Layer: Physiography
Coverage Name: **phys**
Table Description: Ground Area Feature Table
Table Name: **grounda.aft**
dq Layer Number: 5

```
{Header length}L;
Ground Area Feature Table;-;
id=I,1,P,Row Identifier,-,-,-,:
f_code=T,5,N,FACC Feature Code,char.vdt,f_code2.ati,-,:
ara=S,1,N,Area Coverage Attribute (sq. meters),int.vdt,-,-,:
arh=S,1,N,Area Coverage Attribute Hectares,-,-,-,:
mcc=S,1,N,Material Composition Category,int.vdt,-,-,:
nam=T,*,N,Name,char.vdt,-,-,:;
```

Column	**Description**	**Value**	**Value Meaning**	**Applicable f_code for Each Attribute Value**
id	Row Identifier	Sequential beginning with 1		
f_code	FACC Feature Code			
		BA020	Foreshore	
		BA030	Island	
		BA050	Beach	
		DA010	Ground Surface Element	
ara	Area Coverage Attribute (sq. meters)			
		-32768	Null	BA020 **arh**>0, BA030 **arh**>0, BA050 **arh**>0, DA010 **arh**>0
		0	Unknown	BA020 **arh**=-32768, BA030 **arh**=-32768, BA050 **arh**=-32768, DA010 **arh**=-32768
		>0	Actual Value	BA020 **arh**=-32768, BA030 **arh**=-32768, BA050 **arh**=-32768, DA010 **arh**=-32768
arh	Area Coverage Attribute Hectares			
		-32768	Null	BA020 **ara**>=0, BA030 **ara**>=0, BA050 **ara**>=0, DA010 **ara**>=0
		>0	Actual Value	BA020 **ara**=-32768, BA030 **ara**=-32768, BA050 **ara**=-32768, DA010 **ara**=-32768

TABLE E-84. Ground Area Feature Table (Continued).

mcc	Material Composition Category			
		-32768	Null	BA030
		0	Unknown	BA020, BA050, DA010
		8	Boulders	BA020, BA050, DA010
		30	Earthen	BA020, BA050, DA010
		46	Gravel	BA020, BA050, DA010
		52	Lava	BA020, BA050, DA010
		55	Loess	BA020, BA050, DA010
		65	Mud	BA020, BA050, DA010
		84	Rock/Rocky	BA020, BA050, DA010
		88	Sand	BA020, BA050, DA010
		104	Soil	BA020, BA050, DA010
		999	Other	BA020, BA050, DA010
nam	Name			
		VLT=0-length Null		BA020, DA010
		Character text string		BA030, BA050
		"UNK" (no name present for feature)		BA030, BA050

TABLE E-85. Landform Area Feature Table.

Thematic Layer: Physiography
Coverage Name: **phys**
Table Description: Landform Area Feature Table
Table Name: **lndfrma.aft**
dq Layer Number: 5

```
{Header length}L;
Landform Area Feature Table;-;
id=I,1,P,Row Identifier,-,-,-,:
f_code=T,5,N,FACC Feature Code,char.vdt,f_code3.ati,-,:
ara=S,1,N,Area Coverage Attribute (sq. meters),int.vdt,-,-,:
arh=S,1,N,Area Coverage Attribute Hectares,-,-,-,:
nam=T,*,N,Name,char.vdt,-,-,:
sdo=S,1,N,Sand Dune Orientation (degrees),int.vdt,-,-,:
ssc=S,1,N,Structure Shape Category,int.vdt,-,-,:;
```

Column	**Description**	**Value**	**Value Meaning**	**Applicable f_code for Each Attribute Value**
id	Row Identifier	Sequential beginning with 1		
f_code	FACC Feature Code			
		BH150	Salt Pan	
		BH160	Sebkha	
		DA005	Asphalt Lake	
		DB030	Cave	
		DB170	Sand Dune/Sand Hills	
		DB200	Gully/Gorge	
ara	Area Coverage Attribute (sq. meters)			
		-32768	Null	BH150 **arh**>0, BH160 **arh**>0, DA005 **arh**>0, DB030 **arh**>0, DB170 **arh**>0, DB200
		0	Unknown	BH150 **arh**=-32768, BH160 **arh**=-32768, DA005 **arh**=-32768, DB030 **arh**=-32768, DB170 **arh**=-32768
		>0	Actual Value	BH150 **arh**=-32768, BH160 **arh**=-32768, DA005 **arh**=-32768, DB030 **arh**=-32768, DB170 **arh**=-32768

TABLE E-85. Landform Area Feature Table (Continued).

arh	Area Coverage Attribute Hectares			
		-32768	Null	BH150 **ara**>=0, BH160 **ara**>=0, DA005 **ara**>=0, DB030 **ara**>=0, DB170 **ara**>=0, DB200
		>0	Actual Value	BH150 **ara**=-32768, BH160 **ara**=-32768, DA005 **ara**=-32768, DB030 **ara**=-32768, DB170 **ara**=-32768
nam	Name	VLT=0-length Null		BH150, BH160, DA005, DB170
		Character text string		DB030, DB200
		"UNK" (no name present for feature)		DB030, DB200
sdo	Sand Dune Orientation (degrees)			
		-32768	Null	BH150, BH160, DA005, DB030, DB200
		999	Unknown	DB170
		0 to 359		DB170
ssc	Structure Shape Category			
		-32768	Null	BH150, BH160, DA005, DB030, DB200
		0	Unknown	DB170
		22	Crescent	DB170
		26	Lateral	DB170
		27	Mounds	DB170
		28	Ripple	DB170
		29	Star	DB170
		30	Transverse	DB170

TABLE E-86. Physiography Text Feature Table.

Thematic Layer:	Physiography
Coverage Name:	**phys**
Table Description:	Physiography Text Feature Table
Table Name:	**phystxt.tft**
dq Layer Number:	5

```
{Header length}L;
Physiography Text Feature Table;-;
id=I,1,P,Row Identifier,-,-,-,:
f_code=T,5,N,FACC Feature Code,char.vdt,f_code1.tti,-,:
symbol_id=S,1,N,Symbol Identification,-,-,-,:
tile_id=S,1,N,Tile Reference ID,-,tile1_id.tti,-,:
txt_id=I,1,N,Text Primitive ID,-,txt1_id.tti,-,:;
```

Column	**Description**	**Value**	**Value Meaning**
id	Row Identifier	Sequential beginning with 1	
f_code	FACC Feature Code		
		ZD040	Named Location
		ZD045	Text Description
symbol_id	Symbol Identification (Refer to Symbol Related Attribute Table for selection of values)		

TABLE E-87. Physiography Feature Class Attribute Table.

Thematic Layer: Physiography
Coverage Name: **phys**
Table Description: Physiography Feature Class Attribute Table
Table Name: **fca**
dq Layer Number: 5

{Header length}L; Physiography Feature Class Attribute Table;-; id=I,1,P,Row Identifier,-,-,-,: fclass=T,8,U,Feature Class Name,-,-,-,: type=T,1,N,Feature Type,char.vdt,-,-,: descr=T,*,N,Description,-,-,-,:;

1	bluffl	L	Bluff Lines
:	:	:	:
n	n	n	n

Column	Description	Value	Value Meaning	Applicable fclass for Each Attribute Value
id	Row Identifier	Sequential beginning with 1		
fclass	Feature Class Name			
		cavep		
		bluffl		
		embankl		
		faultl		
		embanka		
		grounda		
		lndfrma		
		phystxt		
type	Feature Type			
		P	Point/Node Feature	cavep
		L	Line Feature	bluffl, embankl, faultl
		A	Area Feature	embanka, grounda, lndfrma
		T	Text Feature	phystxt
descr	Description			
		Cave Points		cavep
		Bluff Lines		bluffl
		Embankment Lines		embankl
		Fault Lines		faultl
		Embankment Areas		embanka
		Ground Areas		grounda
		Landform Areas		lndfrma
		Physiography Coverage Text		phystxt

TABLE E-88. Physiography Character Value Description Table.

Thematic Layer: Physiography
Coverage Name: **phys**
Table Description: Physiography Character Value Description Table
Table Name: **char.vdt**
dq Layer Number: 5

{Header length}L;
Physiography Character Value Description Table;-;
id=I,1,P,Row Identifier,-,-,-,:
table=T,12,N,Name of the Feature Table,-,-,-,:
attribute=T,6,N,Column Name,-,-,-,:
value=T,5,N,Unique Value of Attribute,-,-,-,:
description=T,22,N,Description of Value,-,-,-,:;

1	cavep.pft	f_code	DB030	Cave
2	cavep.pft	nam	UNK	No name present
3	dqpoint.pft	f_code	DB030	Cave
4	dqpoint.pft	f_code	ZD045	Text Description
5	bluffl.lft	f_code	DB010	Bluff/Cliff/Escarpment
6	embankl.lft	f_code	DB070	Cut
7	embankl.lft	f_code	DB090	Embankment/Fill
8	faultl.lft	f_code	DB110	Fault
9	faultl.lft	nam	UNK	No name present
10	dqline.lft	f_code	DB010	Bluff/Cliff/Escarpment
11	dqline.lft	f_code	DB070	Cut
12	dqline.lft	f_code	DB090	Embankment/Fill
13	dqline.lft	f_code	DB110	Fault
14	dqline.lft	f_code	ZD045	Text Description
15	embanka.aft	f_code	DB090	Embankment/Fill
16	embanka.aft	nam	UNK	No name present
17	grounda.aft	f_code	BA020	Foreshore
18	grounda.aft	f_code	BA030	Island
19	grounda.aft	f_code	BA050	Beach
20	grounda.aft	f_code	DA010	Ground Surface Element
21	grounda.aft	nam	UNK	No name present
22	lndfrma.aft	f_code	BH150	Salt Pan
23	lndfrma.aft	f_code	BH160	Sebkha
24	lndfrma.aft	f_code	DA005	Asphalt Lake
25	lndfrma.aft	f_code	DB030	Cave
26	lndfrma.aft	f_code	DB170	Sand Dune/Sand Hills
27	lndfrma.aft	f_code	DB200	Gully/Gorge
28	lndfrma.aft	nam	UNK	No name present
29	dqarea.aft	f_code	DB090	Embankment/Fill
30	dqarea.aft	f_code	BA020	Foreshore
31	dqarea.aft	f_code	BA030	Island
32	dqarea.aft	f_code	BA050	Beach
33	dqarea.aft	f_code	DA010	Ground Surface Element
34	dqarea.aft	f_code	BH150	Salt Pan
35	dqarea.aft	f_code	BH160	Sebkha
36	dqarea.aft	f_code	DA005	Asphalt Lake

TABLE E-88. Physiography Character Value Description Table (Continued).

37	dqarea.aft	f_code	DB030	Cave
38	dqarea.aft	f_code	DB170	Sand Dune/Sand Hills
39	dqarea.aft	f_code	DB200	Gully/Gorge
40	dqarea.aft	f_code	ZD045	Text Description
41	phystxt.tft	f_code	ZD040	Named Location
42	phystxt.tft	f_code	ZD045	Text Description
43	fca	type	A	Area Feature
44	fca	type	L	Line Feature
45	fca	type	P	Point/Node Feature
46	fca	type	T	Text Feature

TABLE E-89. Physiography Integer Value Description Table.

Thematic Layer: Physiography
Coverage Name: **phys**
Table Description: Physiography Integer Value Description Table
Table Name: **int.vdt**
dq Layer Number: 5

{Header length}L;
Physiography Integer Value Description Table;-;
id=I,1,P,Row Identifier,-,-,-,:
table=T,12,N,Name of the Feature Table,-,-,-,:
attribute=T,3,N,Column Name,-,-,-,:
value=S,1,N,Unique Value of Attribute,-,-,-,:
description=T,54,N,Description of Value,-,-,-,:;

1	cavep.pft	ara	0	Unknown
2	bluffl.lft	pfh	0	Unknown
3	bluffl.lft	sgc	0	Unknown
4	embankl.lft	hgt	0	Unknown
5	embankl.lft	use	0	Unknown
6	embankl.lft	use	8	Military
7	embankl.lft	use	69	Levee/Dike
8	embankl.lft	use	127	as a Causeway
9	embankl.lft	use	136	as a Fill
10	embankl.lft	use	999	Other
11	embankl.lft	vrr	0	Unknown
12	embankl.lft	vrr	1	Above Surface/Does not cover (At High Water)
13	embankl.lft	vrr	8	Covers and Uncovers
14	embankl.lft	vrr	9	Not Applicable
15	embankl.lft	wid	0	Unknown
16	faultl.lft	wid	0	Unknown
17	embanka.aft	hgt	0	Unknown
18	embanka.aft	use	0	Unknown
19	embanka.aft	use	69	Levee/Dike
20	embanka.aft	use	127	as a Causeway
21	embanka.aft	use	136	as a Fill
22	embanka.aft	use	999	Other
23	embanka.aft	vrr	0	Unknown
24	embanka.aft	vrr	1	Above Surface/Does not cover (At High Water)
25	embanka.aft	vrr	8	Covers and Uncovers
26	embanka.aft	vrr	9	Not Applicable
27	grounda.aft	ara	0	Unknown
28	grounda.aft	mcc	0	Unknown
29	grounda.aft	mcc	8	Boulders
30	grounda.aft	mcc	30	Earthen
31	grounda.aft	mcc	46	Gravel
32	grounda.aft	mcc	52	Lava
33	grounda.aft	mcc	55	Loess
34	grounda.aft	mcc	65	Mud

TABLE E-89. Physiography Integer Value Description Table (Continued).

35	grounda.aft	mcc	84	Rock/Rocky
36	grounda.aft	mcc	88	Sand
37	grounda.aft	mcc	104	Soil
38	grounda.aft	mcc	999	Other
39	lndfrma.aft	ara	0	Unknown
40	lndfrma.aft	sdo	999	Unknown
41	lndfrma.aft	ssc	0	Unknown
42	lndfrma.aft	ssc	22	Crescent
43	lndfrma.aft	ssc	26	Lateral
44	lndfrma.aft	ssc	27	Mounds
45	lndfrma.aft	ssc	28	Ripple
46	lndfrma.aft	ssc	29	Star
47	lndfrma.aft	ssc	30	Transverse
48	symbol.rat	fon	1	Machine Default
49	symbol.rat	sty	1	Kern
50	symbol.rat	sty	2	Proportional
51	symbol.rat	sty	3	Constant
52	symbol.rat	col	1	Black
53	symbol.rat	col	4	Blue
54	symbol.rat	col	9	Red-Brown
55	symbol.rat	col	12	Magenta

E.3.8 Population Coverage

TABLE E-90. Content and format for Population Coverage Feature Class Schema Table.

Thematic Layer: Population
Coverage Name: **pop**
Table Description: Population Feature Class Schema Table
Table Name: **fcs**
dq Layer Number: 6

```
{Header length}L;
Population Feature Class Schema Table;-;
id=I,1,P,Row Identifier,-,-,-,:
feature_class=T,8,N,Name of Feature Class,-,-,-,:
table1=T,12,N,First Table,-,-,-,:
table1_key=T,16,N,Column Name in First Table,-,-,-,:
table2=T,12,N,Second Table,-,-,-,:
table2_key=T,16,N,Column Name in Second Table,-,-,-,:;
```

1	bldpopp	bldpopp.pft	end_id	end	id
2	bldpopp	end	id	bldpopp.pft	end_id
3	landmrkp	landmrkp.pft	end_id	end	id
4	landmrkp	end	id	landmrkp.pft	end_id
5	milp	milp.pft	end_id	end	id
6	milp	end	id	milp.pft	end_id
7	mispopp	mispopp.pft	end_id	end	id
8	mispopp	end	id	mispopp.pft	end_id
9	ruinsp	ruinsp.pft	end_id	end	id
10	ruinsp	end	id	ruinsp.pft	end_id
11	bldpopl	bldpopl.lft	id	bldpopl.ljt	bldpopl.lft_id
12	bldpopl	bldpopl.ljt	edg_id	edg	id
13	bldpopl	edg	id	bldpopl.ljt	edg_id
14	bldpopl	bldpopl.ljt	bldpopl.lft_id	bldpopl.lft	id
15	landmrkl	landmrkl.lft	id	landmrkl.ljt	landmrkl.lft_id
16	landmrkl	landmrkl.ljt	edg_id	edg	id
17	landmrkl	edg	id	landmrkl.ljt	edg_id
18	landmrkl	landmrkl.ljt	landmrkl.lft_id	landmrkl.lft	id
19	mill	mill.lft	id	mill.ljt	mill.lft_id
20	mill	mill.ljt	edg_id	edg	id
21	mill	edg	id	mill.ljt	edg_id
22	mill	mill.ljt	mill.lft_id	mill.lft	id
23	bldpopa	bldpopa.aft	id	bldpopa.ajt	bldpopa.aft_id
24	bldpopa	bldpopa.ajt	fac_id	fac	id
25	bldpopa	fac	id	bldpopa.ajt	fac_id
26	bldpopa	bldpopa.ajt	bldpopa.aft_id	bldpopa.aft	id
27	builtupa	builtupa.aft	id	builtupa.ajt	builtupa.aft_id
28	builtupa	builtupa.ajt	fac_id	fac	id
29	builtupa	fac	id	builtupa.ajt	fac_id
30	builtupa	builtupa.ajt	builtupa.aft_id	builtupa.aft	id
31	cmpxpopa	cmpxpopa.aft	id	cmpxpopa.ajt	cmpxpopa.aft_id
32	cmpxpopa	cmpxpopa.ajt	fac_id	fac	id
33	cmpxpopa	fac	id	cmpxpopa.ajt	fac_id
34	cmpxpopa	cmpxpopa.ajt	cmpxpopa.aft_id	cmpxpopa.aft	id

TABLE E-90. Content and format for Population Coverage Feature Class Schema Table (Continued).

35	Landmrka	landmrka.aft	id	landmrka.ajt	landmrka.aft_id
36	landmrka	landmrka.ajt	fac_id	fac	id
37	landmrka	fac	id	landmrka.ajt	fac_id
38	landmrka	landmrka.ajt	landmrka.aft_id	landmrka.aft	id
39	mila	mila.aft	id	mila.ajt	mila.aft_id
40	mila	mila.ajt	fac_id	fac	id
41	mila	fac	id	mila.ajt	fac_id
42	mila	mila.ajt	mila.aft_id	mila.aft	id
43	mispopa	mispopa.aft	id	mispopa.ajt	mispopa.aft_id
44	mispopa	mispopa.ajt	fac_id	fac	id
45	mispopa	fac	id	mispopa.ajt	fac_id
46	mispopa	mispopa.ajt	mispopa.aft_id	mispopa.aft	id
47	mobilea	mobilea.aft	id	mobilea.ajt	mobilea.aft_id
48	mobilea	mobilea.ajt	fac_id	fac	id
49	mobilea	fac	id	mobilea.ajt	fac_id
50	mobilea	mobilea.ajt	mobilea.aft_id	mobilea.aft	id
51	plazaa	plazaa.aft	id	plazaa.ajt	plazaa.aft_id
52	plazaa	plazaa.ajt	fac_id	fac	id
53	plazaa	fac	id	plazaa.ajt	fac_id
54	plazaa	plazaa.ajt	plazaa.aft_id	plazaa.aft	id
55	ruinsa	ruinsa.aft	id	ruinsa.ajt	ruinsa.aft_id
56	ruinsa	ruinsa.ajt	fac_id	fac	id
57	ruinsa	fac	id	ruinsa.ajt	fac_id
58	ruinsa	ruinsa.ajt	ruinsa.aft_id	ruinsa.aft	id
59	dqpoint	dqpoint.pft	end_id	end	id
60	dqpoint	end	id	dqpoint.pft	end_id
61	dqpoint	dqpoint.pft	dqdescr_id	dqdescr.rat	id
62	dqline	dqline.lft	id	dqline.ljt	dqline.lft_id
63	dqline	dqline.ljt	edg_id	edg	id
64	dqline	edg	id	dqline.ljt	edg_id
65	dqline	dqline.ljt	dqline.lft_id	dqline.lft	id
66	dqline	dqline.lft	dqdescr_id	dqdescr.rat	id
67	dqarea	dqarea.aft	id	dqarea.ajt	dqarea.aft_id
68	dqarea	dqarea.ajt	fac_id	fac	id
69	dqarea	fac	id	dqarea.ajt	fac_id
70	dqarea	dqarea.ajt	dqarea.aft_id	dqarea.aft	id
71	dqarea	dqarea.aft	dqdescr_id	dqdescr.rat	id
72	dqtext	dqtext.tft	txt_id	txt	id
73	dqtext	txt	id	dqtext.tft	txt_id
74	poptxt	poptxt.tft	txt_id	txt	id
75	poptxt	txt	id	poptxt.tft	txt_id
76	poptxt	poptxt.tft	symbol_id	symbol.rat	symbol_id

TABLE E-91. Buildings Point Feature Table.

Thematic Layer: Population
Coverage Name: **pop**
Table Description: Buildings Point Feature Table
Table Name: **bldpopp.pft**
dq Layer Number: 6

```
{Header length}L;
Buildings Point Feature Table;-;
id=I,1,P,Row Identifier,-,-,-,:
f_code=T,5,N,FACC Feature Code,char.vdt,-,-,:
ara=S,1,N,Area Coverage Attribute (sq. meters),int.vdt,-,-,:
arh=S,1,N,Area Coverage Attribute Hectares,-,-,-,:
bfc=S,1,N,Building Function Category,int.vdt,-,-,:
ebt=S,1,N,Educational Building Type,int.vdt,-,-,:
exs=S,1,N,Existence Category,int.vdt,-,-,:
hgt=S,1,N,Height Above Surface Level (meters),int.vdt,-,-,:
hwt=S,1,N,House of Worship Type,int.vdt,-,-,:
idn=T,*,N,Identification Number,char.vdt,-,-,:
len=S,1,N,Length (meters),int.vdt,-,-,:
nam=T,*,N,Name,char.vdt,-,-,:
ssr=S,1,N,Structure Shape of Roof,int.vdt,-,-,:
use=S,1,N,Usage,int.vdt,-,-,:
wid=S,1,N,Width (meters),int.vdt,-,-,:
tile_id=S,1,N,Tile Reference ID,-,tile1_id.pti,-,:
end_id=I,1,N,Entity Node Primitive ID,-,end1_id.pti,-,:;
```

Column	Description	Value	Value Meaning	Applicable f_code for Each Attribute Value
id	Row Identifier	Sequential beginning with 1		
f_code	FACC Feature Code	AL015	Building	
ara	Area Coverage Attribute (sq. meters)			
		-32768	Null	AL015 **arh**>0
		0	Unknown	AL015 **arh**=-32768
		>0	Actual Value	AL015 **arh**=-32768
arh	Area Coverage Attribute Hectares			
		-32768	Null	AL015 **ara**>=0
		>0	Actual Value	AL015 **ara**=-32768
bfc	Building Function Category			
		0	Unknown	AL015
		2	Government Building	AL015
		3	Capitol Building	AL015
		4	Castle	AL015
		5	Government Administration Building	AL015
		6	Hospital	AL015

TABLE E-91. Buildings Point Feature Table (Continued).

7	House of Worship	AL015
8	Military Administration/ Operations Building	AL015
9	Museum	AL015
10	Observatory	AL015
11	Palace	AL015
12	Police Station	AL015
13	Prison	AL015
14	Ranger Station	AL015
15	School	AL015
16	House	AL015
17	Multi Unit Dwelling	AL015
18	Cemetery Building	AL015
19	Farm Building	AL015
20	Greenhouse	AL015
28	Administration Building	AL015
31	Customs House	AL015
33	Health Office	AL015
34	Firing Range	AL015
35	Post Office	AL015
36	Barracks/Dormitory	AL015
37	Fire Station	AL015
38	Jail	AL015
39	Guardhouse	AL015
50	Church	AL015
51	Market	AL015
52	Town Hall	AL015
53	Bank	AL015
55	Yacht Club/Sailing Club	AL015
56	Public Inn	AL015
57	Restaurant	AL015
58	Observation	AL015
60	University/College	AL015
61	Courthouse	AL015
62	Legation	AL015
63	Mission	AL015
64	Chancery	AL015
65	Ambassadorial Residence	AL015
66	Embassy	AL015
67	Consulate	AL015
69	Guard Shack/Guard Room	AL015
70	Kennel	AL015
77	Harbor Masters Office	AL015
78	Marine Police	AL015
79	Rescue	AL015
80	Port Control	AL015
82	Lighthouse	AL015
87	Auditorium	AL015
88	Opera House	AL015

TABLE E-91. Buildings Point Feature Table (Continued).

	91	Mobile Home	AL015
	92	Weather Station	AL015
	93	Dependents Housing/ Bivouac Area	AL015
	95	Hotel	AL015
	96	Diplomatic Building	AL015
	97	Trading Post	AL015
	98	Shed	AL015
	99	Battery	AL015
	100	Medical Center	AL015
	101	Municipal Hall	AL015
	103	Outbuilding	AL015
	105	Reformatory	AL015
	106	Sanitorium	AL015
	107	Satellite Tracking Station	AL015
	108	Seminary	AL015
	109	Senior Citizen's Home	AL015
	111	Sportsplex	AL015
	114	Non-Christian Place of Worship	AL015
	115	Hostel	AL015
	117	Motel	AL015
	118	Community Center	AL015
	119	City Hall	AL015
	121	Armory	AL015
	122	Shopping Center	AL015
	123	Correctional Institute	AL015
	126	Astronomical Station	AL015
	127	Theater	AL015
	128	Library	AL015
	723	Combined Fire and Police Station	AL015
	999	Other	AL015
ebt	Educational Building Type		
	0	Unknown	AL015
	1	Academy	AL015
	2	College	AL015
	3	Educational Center	AL015
	4	Lyceum	AL015
	5	University	AL015
	6	Seminary	AL015
	8	Not Applicable	AL015
	999	Other	AL015

TABLE E-91. Buildings Point Feature Table (Continued).

exs	Existence Category			
	0	Unknown	AL015	
	5	Under Construction	AL015	
	6	Abandoned/Disused	AL015	
	7	Destroyed	AL015	
	28	Operational	AL015	
hgt	Height Above Surface Level (meters)			
	0	Unknown	AL015	
	>0	Actual Value	AL015	
hwt	House of Worship Type			
	0	Unknown	AL015	**bfc**=7 or 114
	2	Cathedral	AL015	**bfc**=7 or 114
	3	Chapel	AL015	**bfc**=7 or 114
	4	Church	AL015	**bfc**=7 or 114
	5	Marabout	AL015	**bfc**=7 or 114
	6	Minaret	AL015	**bfc**=7 or 114
	7	Monastery, Convent	AL015	**bfc**=7 or 114
	9	Mosque	AL015	**bfc**=7 or 114
	11	Pagoda	AL015	**bfc**=7 or 114
	14	Shrine	AL015	**bfc**=7 or 114
	15	Tabernacle	AL015	**bfc**=7 or 114
	16	Temple	AL015	**bfc**=7 or 114
	20	Synagogue	AL015	**bfc**=7 or 114
	21	Stupa	AL015	**bfc**=7 or 114
	22	Not Applicable	AL015	**bfc**<>7 or 114
	23	Any	AL015	**bfc**=7 or 114
idn	Identification Number			
	0	Unknown	AL015	
	Any		AL015	
len	Length (meters)			
	0	Unknown	AL015	
	>0	Actual Value	AL015	
nam	Name			
	Character text string		AL015	
	"UNK" (no name present for feature)		AL015	

TABLE E-91. Buildings Point Feature Table (Continued).

ssr	Structure Shape of Roof			
		0	Unknown	AL015
		6	Conical/Peaked/NUN	AL015
		38	Curved/Round (Quonset)	AL015
		40	Dome	AL015
		41	Flat	AL015
		42	Gable (Pitched)	AL015
		47	Sawtooth	AL015
		50	With Monitor	AL015
		51	With Steeple	AL015
		55	Flat with Monitor	AL015
		64	Gable with Monitor	AL015
		77	With Cupola	AL015
		78	With Turret	AL015
		79	With Tower	AL015
		80	With Minaret	AL015
		999	Other	AL015
use	Usage			
		0	Unknown	AL015
		4	National	AL015
		5	State	AL015
		6	Private	AL015
		8	Military	AL015
		22	Joint Military/Civilian	AL015
		23	International	AL015
		43	Institutional	AL015
		49	Civilian/Public	AL015
		120	Recreational	AL015
		130	Transportation	AL015
		991	Not Applicable	AL015
		999	Other	AL015
wid	Width (meters)			
		0	Unknown	AL015
		>0	Actual Value	AL015

TABLE E-92. Landmark Point Feature Table.

Thematic Layer: Population
Coverage Name: **pop**
Table Description: Landmark Point Feature Table
Table Name: **landmrkp.pft**
dq Layer Number: 6

```
{Header length}L;
Landmark Point Feature Table;-;
id=I,1,P,Row Identifier,-,-,-,:
f_code=T,5,N,FACC Feature Code,char.vdt,f_code2.pti,-,:
ara=S,1,N,Area Coverage Attribute (sq. meters),int.vdt,-,-,:
arh=S,1,N,Area Coverage Attribute Hectares,-,-,-,:
coc=S,1,N,Conspicuous Category,int.vdt,-,-,:
exs=S,1,N,Existence Category,int.vdt,-,-,:
hgt=S,1,N,Height Above Surface Level (meters),int.vdt,-,-,:
len=S,1,N,Length (meters),int.vdt,-,-,:
nam=T,*,N,Name,char.vdt,-,-,:
rel=S,1,N,Religious Denomination,int.vdt,-,-,:
ssc=S,1,N,Structure Shape Category,int.vdt,-,-,:
wid=S,1,N,Width (meters),int.vdt,-,-,:
tile_id=S,1,N,Tile Reference ID,-,tile2_id.pti,_,:
end_id=I,1,N,Entity Node Primitive ID,-,end2_id.pti,-,:;
```

Column	**Description**	**Value**	**Value Meaning**	**Applicable f_code for Each Attribute Value**
id	Row Identifier	Sequential beginning with 1		
f_code	FACC Feature Code			
		AK020	Amusement Park Attraction	
		AK150	Ski Jump	
		AL030	Cemetery	
		AL130	Monument	
		BH075	Fountain	
ara	Area Coverage Attribute (sq. meters)			
		-32768	Null	AK020, AK150, AL030 **arh**>0, AL130, BH075
		0	Unknown	AL030 **arh**=-32768
		>0	Actual Value	AL030 **arh**=-32768
arh	Area Coverage Attribute Hectares			
		-32768	Null	AK020, AK150, AL030 **ara**>=0, AL130, BH075
		>0	Actual Value	AL030 **ara**=-32768

TABLE E-92. Landmark Point Feature Table (Continued).

coc	Conspicuous Category			
		-32768	Null	AK020, AK150, BH075
		0	Unknown	AL030, AL130
		1	Conspicuous from Sea	AL030, AL130
		6	Inconspicuous	AL030, AL130
exs	Existence Category			
		-32768	Null	AK020, AK150, AL130, BH075
		0	Unknown	AL030
		30	Not Isolated	AL030
		31	Isolated	AL030
hgt	Height Above Surface Level (meters)			
		-32768	Null	AL030
		0	Unknown	AK020, AK150, AL130, BH075
		>0	Actual Value	AK020, AK150, AL130, BH075
len	Length (meters)			
		-32768	Null	AL030, AK020, AL130
		0	Unknown	AK150, BH075
		>0	Actual Value	AK150, BH075
nam	Name			
		VLT=0-length	Null	AK020, AK150
		Character text string		AL130, BH075, AL030
		"UNK" (no name present for feature)		AL130, BH075, AL030
rel	Religious Denomination			
		-32768	Null	AK020, AK150, AL130, BH075
		0	Unknown	AL030
		1	Buddhist	AL030
		2	Moslem	AL030
		3	Roman Catholic	AL030
		4	Christian (undefined)	AL030
		5	Judaism	AL030
		6	Greek Orthodox	AL030
		7	Protestant	AL030
		8	Shinto	AL030
		999	Other	AL030

TABLE E-92. Landmark Point Feature Table (Continued).

ssc	Structure Shape Category			
		-32768	Null	AK150, AL030, BH075
		0	Unknown	AK020, AL130
		12	Pyramid	AL130
		17	Sphere (Hemispherical)	AK020
		21	Artificial Mountain	AK020
		23	Ferris Wheel	AK020
		25	Roller Coaster	AK020
		77	Arch	AL130
		109	Obelisk	AL130
		999	Other	AK020, AL130
wid	Width (meters)			
		-32768	Null	AK020, AK150, AL130
		0	Unknown	AL030, BH075
		>0	Actual Value	AL030, BH075

TABLE E-93. Military Point Feature Table.

Thematic Layer: Population
Coverage Name: **pop**
Table Description: Military Point Feature Table
Table Name: **milp.pft**
dq Layer Number: 6

```
{Header length}L;
Military Point Feature Table;-;
id=I,1,P,Row Identifier,-,-,-,:
f_code=T,5,N,FACC Feature Code,char.vdt,f_code3.pti,-,:
exs=S,1,N,Existence Category,int.vdt,-,-,:
frt=S,1,N,Firing Range Type,int.vdt,-,-,:
loc=S,1,N,Location Category,int.vdt,-,-,:
mcc=S,1,N,Material Composition Category,int.vdt,-,-,:
mst=S,1,N,Missile Site Type,int.vdt,-,-,:
nam=T,*,N,Name,char.vdt,-,-,:
ysu=S,1,N,Service Branch,int.vdt,-,-,:
tile_id=S,1,N,Tile Reference ID,-,tile3_id.pti,-,:
end_id=I,1,N,Entity Node Primitive ID,-,end3_id.pti,-,:;
```

Column	Description	Value	Value Meaning	Applicable f_code for Each Attribute Value
id	Row Identifier	Sequential beginning with 1		
f_code	FACC Feature Code			
		AH010	Bastion/Rampart/Fortification	
		AH050	Fortification	
		AH060	Underground Bunker	
		AL120	Missile Site	
		AT020	Early Warning Radar Site	
		AT045	Radar Transmitter	
		FA015	Firing Range/Gunnery Range	
exs	Existence Category			
		0	Unknown	AH010, AH050, AH060, AL120, AT045, AT020, FA015
		5	Under Construction	AH010, AH050, AH060, AL120, AT045, AT020, FA015
		6	Abandoned/Disused	AH010, AH050, AH060, AL120, AT045, AT020, FA015
		11	Temporary	AH010, AH050, AH060, AL120, AT045, AT020, FA015
		28	Operational	AH010, AH050, AH060, AL120, AT045, AT020, FA015

TABLE E-93. Military Point Feature Table (Continued).

frt	Firing Range Type			
		-32768	Null	AH010, AH050, AH060, AL120, AT045, AT020
		0	Unknown	FA015
		1	Rifle/Small Arms	FA015
		2	Tank	FA015
		3	Artillery	FA015
		4	Grenade	FA015
		5	Demolition Area	FA015
		6	Impact Area	FA015
		999	Other	FA015
loc	Location Category			
		-32768	Null	AH060
		0	Unknown	AH010, AH050, AL120, AT045, AT020, FA015
		4	Below Surface/ Submerged/Underground	AH010, AH050, AL120, AT045, AT020, FA015
		8	On Ground Surface	AH010, AH050, AL120, AT045, AT020, FA015
		25	Suspended/Elevated Above Ground or Water Surface	AT045
mcc	Material Composition Category			
		-32768	Null	AT045, AT020
		0	Unknown	AH010, AH050, AH060, AL120, FA015
		8	Boulders	AH010, AH050, AH060, AL120, FA015
		9	Brick	AH010, AH050, AH060, AL120, FA015
		21	Concrete	AH010, AH050, AH060, AL120, FA015
		30	Earthen	AH010, AH050, AH060, AL120, FA015
		62	Masonry (Brick/Stone)	AH010, AH050, AH060, AL120, FA015
		83	Reinforced Concrete	AH010, AH050, AH060, AL120, FA015
		117	Wood	AH010, AH050, AH060, AL120, FA015
mst	Missile Site Type			
		-32768	Null	AH010, AH050, AH060, AT045, AT020, FA015
		0	Unknown	AL120
		1	ABM	AL120
		2	ICBM	AL120

TABLE E-93. Military Point Feature Table (Continued).

		3	IRBM	AL120
		4	SA1	AL120
		5	SA2	AL120
		6	SA3	AL120
		7	SA4	AL120
		8	SA5	AL120
		9	SA6	AL120
		10	SA7	AL120
		11	SA8	AL120
		12	SA9	AL120
		13	MRBM	AL120
		14	SSM	AL120
		15	SAM	AL120
		999	Other	AL120
nam	Name			
		Character text string		AH010, AH050, AH060, AL120, AT045, AT020, FA015
		"UNK" (no name present for feature)		AH010, AH050, AH060, AL120, AT045, AT020, FA015
ysu	Service Branch			
		0	Unknown	AH010, AH050, AH060, AL120, AT045, AT020, FA015
		1	Airforce	AH010, AH050, AH060, AL120, AT045, AT020, FA015
		2	Army	AH010, AH050, AH060, AL120, AT045, AT020, FA015
		3	Coast Guard	AH010, AH050, AH060, AL120, AT045, AT020, FA015
		4	Marines	AH010, AH050, AH060, AL120, AT045, AT020, FA015
		5	Navy	AH010, AH050, AH060, AL120, AT045, AT020, FA015
		6	Other	AH010, AH050, AH060, AL120, AT045, AT020, FA015
		7	Joint	AH010, AH050, AH060, AL120, AT045, AT020, FA015

Table E-94. Miscellaneous Population Point Feature Table.

Thematic Layer: Population
Coverage Name: **pop**
Table Description: Miscellaneous Population Point Feature Table
Table Name: **mispopp.pft**
dq Layer Number: 6

```
{Header length}L;
Miscellaneous Population Point Feature Table;-;
id=I,1,P,Row Identifier,-,-,-,:
f_code=T,5,N,FACC Feature Code,char.vdt,f_code4.pti,-,:
ara=S,1,N,Area Coverage Attribute (sq. meters),int.vdt,-,-,:
arh=S,1,N,Area Coverage Attribute Hectares,-,-,-,:
nam=T,*,N,Name,char.vdt,-,-,:
ppt=S,1,N,Populated Place Type,int.vdt,-,-,:
tile_id=S,1,N,Tile Reference ID,-,tile4_id.pti,-,:
end_id=I,1,N,Entity Node Primitive ID,-,end4_id.pti,-,:;
```

Column	**Description**	**Value**	**Value Meaning**	**Applicable f_code for Each Attribute Value**
id	Row Identifier	Sequential beginning with 1		
f_code	FACC Feature Code			
		AL100	Hut	
		AL135	Native Settlement	
		AL250	Underground Dwelling	
ara	Area Coverage Attribute (sq. meters)			
		-32768	Null	AL100, AL135 **arh**>0, AL250
		0	Unknown	AL135 **arh**=-32768
		>0	Actual Value	AL135 **arh**=-32768
arh	Area Coverage Attribute Hectares			
		-32768	Null	AL100, AL135 **ara**>=0, AL250
		>0	Actual Value	AL135 **ara**=-32768
nam	Name			
		VLT=0-length	Null	AL100, AL250
		Character text string		AL135
		"UNK" (no name present for feature)		AL135
ppt	Populated Place Type			
		-32768	Null	AL100, AL250
		0	Unknown	AL135
		1	Native Settlement	AL135
		2	Shanty town	AL135
		3	Tent Dwellings	AL135

TABLE E-95. Ruins Point Feature Table.

Thematic Layer: Population
Coverage Name: **pop**
Table Description: Ruins Point Feature Table
Table Name: **ruinsp.pft**
dq Layer Number: 6

```
{Header length}L;
Ruins Point Feature Table;-;
id=I,1,P,Row Identifier,-,-,-,:
f_code=T,5,N,FACC Feature Code,char.vdt,-,-,:
ara=S,1,N,Area Coverage Attribute (sq. meters),int.vdt,-,-,:
arh=S,1,N,Area Coverage Attribute Hectares,-,-,-,:
hgt=S,1,N,Height Above Surface Level (meters),int.vdt,-,-,:
len=S,1,N,Length (meters),int.vdt,-,-,:
loc=S,1,N,Location Category,int.vdt,-,-,:
nam=T,*,N,Name,char.vdt,-,-,:
wid=S,1,N,Width (meters),int.vdt,-,-,:
tile_id=S,1,N,Tile Reference ID,-,tile5_id.pti,-,:
end_id=I,1,N,Entity Node Primitive ID,-,end5_id.pti,-,:;
```

Column	**Description**	**Value**	**Value Meaning**	**Applicable f_code for Each Attribute Value**
id	Row Identifier	Sequential beginning with 1		
f_code	FACC Feature Code	AL200	Ruins	
ara	Area Coverage Attribute (sq. meters)			
		-32768	Null	AL200 **arh**>0
		0	Unknown	AL200 **arh**=-32768
		>0	Actual Value	AL200 **arh**=-32768
arh	Area Coverage Attribute Hectares			
		-32768	Null	AL200 **ara**>=0
		>0	Actual Value	AL200 **ara**=-32768
hgt	Height Above Surface Level (meters)			
		0	Unknown	AL200
		>0	Actual Value	AL200
len	Length (meters)			
		0	Unknown	AL200
		>0	Actual Value	AL200

TABLE E-95. Ruins Point Feature Table (Continued).

loc	Location Category			
		0	Unknown	AL200
		8	On Ground Surface	AL200
nam	Name	Character text string		AL200
		"UNK" (no name present for feature)		AL200
wid	Width (meters)			
		0	Unknown	AL200
		>0	Actual Value	AL200

TABLE E-96. Buildings Line Feature Table.

Thematic Layer: Population
Coverage Name: **pop**
Table Description: Buildings Line Feature Table
Table Name: **bldpopl.lft**
dq Layer Number: 6

```
{Header length}L;
Buildings Line Feature Table;-;
id=I,1,P,Row Identifier,-,-,-,:
f_code=T,5,N,FACC Feature Code,char.vdt,-,-,:
bfc=S,1,N,Building Function Category,int.vdt,-,-,:
ebt=S,1,N,Educational Building Type,int.vdt,-,-,:
exs=S,1,N,Existence Category,int.vdt,-,-,:
hgt=S,1,N,Height Above Surface Level (meters),int.vdt,-,-,:
hwt=S,1,N,House of Worship Type,int.vdt,-,-,:
idn=T,*,N,Identification Number,char.vdt,-,-,:
nam=T,*,N,Name,char.vdt,-,-,:
ssr=S,1,N,Structure Shape of Roof,int.vdt,-,-,:
use=S,1,N,Usage,int.vdt,-,-,:
wid=S,1,N,Width (meters),int.vdt,-,-,:;
```

Column	Description	Value	Value Meaning	Applicable f_code for Each Attribute Value
id	Row Identifier	Sequential	beginning with 1	
f_code	FACC Feature Code			
		AL015	Building	
bfc	Building Function	Category		
		0	Unknown	AL015
		2	Government Building	AL015
		3	Capitol Building	AL015
		4	Castle	AL015
		5	Government Administration Building	AL015
		6	Hospital	AL015
		7	House of Worship	AL015
		8	Military Administration/ Operations Building	AL015
		9	Museum	AL015
		10	Observatory	AL015
		11	Palace	AL015
		12	Police Station	AL015
		13	Prison	AL015
		14	Ranger Station	AL015
		15	School	AL015
		16	House	AL015
		17	Multi Unit Dwelling	AL015
		18	Cemetery Building	AL015

TABLE E-96. Buildings Line Feature Table (Continued).

19	Farm Building	AL015
20	Greenhouse	AL015
28	Administration Building	AL015
31	Customs House	AL015
33	Health Office	AL015
34	Firing Range	AL015
35	Post Office	AL015
36	Barracks/Dormitory	AL015
37	Fire Station	AL015
38	Jail	AL015
39	Guardhouse	AL015
50	Church	AL015
51	Market	AL015
52	Town Hall	AL015
53	Bank	AL015
55	Yacht Club/Sailing Club	AL015
56	Public Inn	AL015
57	Restaurant	AL015
58	Observation	AL015
60	University/College	AL015
61	Courthouse	AL015
62	Legation	AL015
63	Mission	AL015
64	Chancery	AL015
65	Ambassadorial Residence	AL015
66	Embassy	AL015
67	Consulate	AL015
69	Guard Shack/Guard Room	AL015
70	Kennel	AL015
77	Harbor Masters Office	AL015
78	Marine Police	AL015
79	Rescue	AL015
80	Port Control	AL015
82	Lighthouse	AL015
87	Auditorium	AL015
88	Opera House	AL015
91	Mobile Home	AL015
92	Weather Station	AL015
93	Dependents Housing/ Bivouac Area	AL015
95	Hotel	AL015
96	Diplomatic Building	AL015
97	Trading Post	AL015
98	Shed	AL015
99	Battery	AL015
100	Medical Center	AL015
101	Municipal Hall	AL015
103	Outbuilding	AL015
105	Reformatory	AL015

TABLE E-96. Buildings Line Feature Table (Continued).

	106	Sanitorium	AL015
	107	Satellite Tracking Station	AL015
	108	Seminary	AL015
	109	Senior Citizen's Home	AL015
	111	Sportsplex	AL015
	114	Non-Christian Place of Worship	AL015
	115	Hostel	AL015
	117	Motel	AL015
	118	Community Center	AL015
	119	City Hall	AL015
	121	Armory	AL015
	122	Shopping Center	AL015
	123	Correctional Institute	AL015
	126	Astronomical Station	AL015
	127	Theater	AL015
	128	Library	AL015
	723	Combined Fire and Police Station	AL015
	999	Other	AL015
ebt	Educational Building Type		
	0	Unknown	AL015
	1	Academy	AL015
	2	College	AL015
	3	Educational Center	AL015
	4	Lyceum	AL015
	5	University	AL015
	6	Seminary	AL015
	8	Not Applicable	AL015
	999	Other	AL015
exs	Existence Category		
	0	Unknown	AL015
	5	Under Construction	AL015
	6	Abandoned/Disused	AL015
	7	Destroyed	AL015
	28	Operational	AL015
hgt	Height Above Surface Level (meters)		
	0	Unknown	AL015
	>0	Actual Value	AL015

TABLE E-96. Buildings Line Feature Table (Continued).

hwt	House of Worship Type			
	0	Unknown	AL015	**bfc**=7 or 114
	2	Cathedral	AL015	**bfc**=7 or 114
	3	Chapel	AL015	**bfc**=7 or 114
	4	Church	AL015	**bfc**=7 or 114
	5	Marabout	AL015	**bfc**=7 or 114
	6	Minaret	AL015	**bfc**=7 or 114
	7	Monastery, Convent	AL015	**bfc**=7 or 114
	9	Mosque	AL015	**bfc**=7 or 114
	11	Pagoda	AL015	**bfc**=7 or 114
	14	Shrine	AL015	**bfc**=7 or 114
	15	Tabernacle	AL015	**bfc**=7 or 114
	16	Temple	AL015	**bfc**=7 or 114
	20	Synagogue	AL015	**bfc**=7 or 114
	21	Stupa	AL015	**bfc**=7 or 114
	22	Not Applicable	AL015	**bfc**<>7 or 114
	23	Any	AL015	**bfc**=7 or 114
idn	Identification Number			
	0	Unknown	AL015	
	Any		AL015	
nam	Name			
	Character text string		AL015	
	"UNK" (no name present for feature)		AL015	
ssr	Structure Shape of Roof			
	0	Unknown	AL015	
	6	Conical/Peaked/NUN	AL015	
	38	Curved/Round (Quonset)	AL015	
	40	Dome	AL015	
	41	Flat	AL015	
	42	Gable (Pitched)	AL015	
	47	Sawtooth	AL015	
	50	With Monitor	AL015	
	51	With Steeple	AL015	
	55	Flat with Monitor	AL015	
	64	Gable with Monitor	AL015	
	77	With Cupola	AL015	
	78	With Turret	AL015	
	79	With Tower	AL015	
	80	With Minaret	AL015	
	999	Other	AL015	

TABLE E-96. Buildings Line Feature Table (Continued).

use	Usage			
		0	Unknown	AL015
		4	National	AL015
		5	State	AL015
		6	Private	AL015
		8	Military	AL015
		22	Joint Military/Civilian	AL015
		23	International	AL015
		43	Institutional	AL015
		49	Civilian/Public	AL015
		120	Recreational	AL015
		130	Transportation	AL015
		991	Not Applicable	AL015
		999	Other	AL015
wid	Width (meters)			
		0	Unknown	AL015
		>0	Actual Value	AL015

TABLE E-97. Landmark Line Feature Table.

Thematic Layer: Population
Coverage Name: **pop**
Table Description: Landmark Line Feature Table
Table Name: **landmrkl.lft**
dq Layer Number: 6

```
{Header length}L;
Landmark Line Feature Table;-;
id=I,1,P,Row Identifier,-,-,-,:
f_code=T,5,N,FACC Feature Code,char.vdt,f_code2.lti,-,:
hgt=S,1,N,Height Above Surface Level (meters),int.vdt,-,-,:
nam=T,*,N,Name,char.vdt,-,-,:
wid=S,1,N,Width (meters),int.vdt,-,-,:;
```

Column	Description	Value	Value Meaning	Applicable f_code for Each Attribute Value
id	Row Identifier	Sequential beginning with 1		
f_code	FACC Feature Code			
		AK130	Race Track	
		AK150	Ski Jump	
hgt	Height Above Surface Level (meters)			
		-32768	Null	AK130
		0	Unknown	AK150
		>0	Actual Value	AK150
nam	Name			
		VLT=0-length Null		AK150
		Character text string		AK130
		"UNK" (no name present for feature)		AK130
wid	Width (meters)			
		-32768	Null	AK150
		0	Unknown	AK130
		>0	Actual Value	AK130

TABLE E-98. Military Line Feature Table.

Thematic Layer: Population
Coverage Name: **pop**
Table Description: Military Line Feature Table
Table Name: **mill.lft**
dq Layer Number: 6

```
{Header length}L;
Military Line Feature Table;-;
id=I,1,P,Row Identifier,-,-,-,:
f_code=T,5,N,FACC Feature Code,char.vdt,f_code3.lti,-,:
exs=S,1,N,Existence Category,int.vdt,-,-,:
frt=S,1,N,Firing Range Type,int.vdt,-,-,:
loc=S,1,N,Location Category,int.vdt,-,-,:
mcc=S,1,N,Material Composition Category,int.vdt,-,-,:
mst=S,1,N,Missile Site Type,int.vdt,-,-,:
nam=T,*,N,Name,char.vdt,-,-,:
ysu=S,1,N,Service Branch,int.vdt,-,-,:;
```

Column	Description	Value	Value Meaning	Applicable f_code for Each Attribute Value
id	Row Identifier	Sequential beginning with 1		
f_code	FACC Feature Code			
		AH010	Bastion/Rampart/Fortification	
		AH050	Fortification	
		AH060	Underground Bunker	
		AL120	Missile Site	
		AT020	Early Warning Radar Site	
		AT045	Radar Transmitter	
		FA015	Firing Range/Gunnery Range	
exs	Existence Category			
		0	Unknown	AH010, AH050, AH060, AL120, AT045, AT020, FA015
		5	Under Construction	AH010, AH050, AH060, AL120, AT045, AT020, FA015
		6	Abandoned/Disused	AH010, AH050, AH060, AL120, AT045, AT020, FA015
		11	Temporary	AH010, AH050, AH060, AL120, AT045, AT020, FA015
		28	Operational	AH010, AH050, AH060, AL120, AT045, AT020, FA015

TABLE E-98. Military Line Feature Table (Continued).

frt	Firing Range Type			
		-32768	Null	AH010, AH050, AH060, AL120, AT045, AT020
		0	Unknown	FA015
		1	Rifle/Small Arms	FA015
		2	Tank	FA015
		3	Artillery	FA015
		4	Grenade	FA015
		5	Demolition Area	FA015
		6	Impact Area	FA015
		999	Other	FA015
loc	Location Category			
		-32768	Null	AH060
		0	Unknown	AH010, AH050, AL120, AT045, AT020, FA015
		4	Below Surface/ Submerged/Underground	AH010, AH050, AL120, AT045, AT020, FA015
		8	On Ground Surface	AH010, AH050, AL120, AT045, AT020, FA015
		25	Suspended/Elevated Above Ground or Water Surface	AT045
mcc	Material Composition Category			
		-32768	Null	AT045, AT020
		0	Unknown	AH010, AH050, AH060, AL120, FA015
		8	Boulders	AH010, AH050, AH060, AL120, FA015
		9	Brick	AH010, AH050, AH060, AL120, FA015
		21	Concrete	AH010, AH050, AH060, AL120, FA015
		30	Earthen	AH010, AH050, AH060, AL120, FA015
		62	Masonry (Brick/Stone)	AH010, AH050, AH060, AL120, FA015
		83	Reinforced Concrete	AH010, AH050, AH060, AL120, FA015
		117	Wood	AH010, AH050, AH060, AL120, FA015

TABLE E-98. Military Line Feature Table (Continued).

mst	Missile Site Type			
		-32768	Null	AH010, AH050, AH060, AT045, AT020, FA015
		0	Unknown	AL120
		1	ABM	AL120
		2	ICBM	AL120
		3	IRBM	AL120
		4	SA1	AL120
		5	SA2	AL120
		6	SA3	AL120
		7	SA4	AL120
		8	SA5	AL120
		9	SA6	AL120
		10	SA7	AL120
		11	SA8	AL120
		12	SA9	AL120
		13	MRBM	AL120
		14	SSM	AL120
		15	SAM	AL120
		999	Other	AL120
nam	Name			
		Character text string		AH010, AH050, AH060, AL120, AT045, AT020, FA015
		"UNK" (no name present for feature)		AH010, AH050, AH060, AL120, AT045, AT020, FA015

TABLE E-98. Military Line Feature Table (Continued).

ysu	Service Branch			
		0	Unknown	AH010, AH050, AH060, AL120, AT045, AT020, FA015
		1	Airforce	AH010, AH050, AH060, AL120, AT045, AT020, FA015
		2	Army	AH010, AH050, AH060, AL120, AT045, AT020, FA015
		3	Coast Guard	AH010, AH050, AH060, AL120, AT045, AT020, FA015
		4	Marines	AH010, AH050, AH060, AL120, AT045, AT020, FA015
		5	Navy	AH010, AH050, AH060, AL120, AT045, AT020, FA015
		6	Other	AH010, AH050, AH060, AL120, AT045, AT020, FA015
		7	Joint	AH010, AH050, AH060, AL120, AT045, AT020, FA015

TABLE E-99. Buildings Area Feature Table.

Thematic Layer: Population
Coverage Name: **pop**
Table Description: Buildings Area Feature Table
Table Name: **bldpopa.aft**
dq Layer Number: 6

```
{Header length}L;
Buildings Area Feature Table;-;
id=I,1,P,Row Identifier,-,-,-,:
f_code=T,5,N,FACC Feature Code,char.vdt,-,-,:
ara=S,1,N,Area Coverage Attribute (sq. meters),int.vdt,-,-,:
arh=S,1,N,Area Coverage Attribute Hectares,-,-,-,:
bfc=S,1,N,Building Function Category,int.vdt,-,-,:
ebt=S,1,N,Educational Building Type,int.vdt,-,-,:
exs=S,1,N,Existence Category,int.vdt,-,-,:
hgt=S,1,N,Height Above Surface Level (meters),int.vdt,-,-,:
hwt=S,1,N,House of Worship Type,int.vdt,-,-,:
idn=T,*,N,Identification Number,char.vdt,-,-,:
nam=T,*,N,Name,char.vdt,-,-,:
ssr=S,1,N,Structure Shape of Roof,int.vdt,-,-,:
use=S,1,N,Usage,int.vdt,-,-,:;
```

Column	Description	Value	Value Meaning	Applicable f_code for Each Attribute Value
id	Row Identifier	Sequential beginning with 1		
f_code	FACC Feature Code	AL015	Building	
ara	Area Coverage Attribute (sq. meters)			
		-32768	Null	AL015 **arh**>0
		0	Unknown	AL015 **arh**=-32768
		>0	Actual Value	AL015 **arh**=-32768
arh	Area Coverage Attribute Hectares			
		-32768	Null	AL015 **ara**>=0
		>0	Actual Value	AL015 **ara**=-32768
bfc	Building Function Category			
		0	Unknown	AL015
		2	Government Building	AL015
		3	Capitol Building	AL015
		4	Castle	AL015
		5	Government Administration Building	AL015
		6	Hospital	AL015
		7	House of Worship	AL015
		8	Military Administration/ Operations Building	AL015
		9	Museum	AL015

TABLE E-99. Buildings Area Feature Table (Continued).

10	Observatory	AL015
11	Palace	AL015
12	Police Station	AL015
13	Prison	AL015
14	Ranger Station	AL015
15	School	AL015
16	House	AL015
17	Multi Unit Dwelling	AL015
18	Cemetery Building	AL015
19	Farm Building	AL015
20	Greenhouse	AL015
28	Administration Building	AL015
31	Customs House	AL015
33	Health Office	AL015
34	Firing Range	AL015
35	Post Office	AL015
36	Barracks/Dormitory	AL015
37	Fire Station	AL015
38	Jail	AL015
39	Guardhouse	AL015
50	Church	AL015
51	Market	AL015
52	Town Hall	AL015
53	Bank	AL015
55	Yacht Club/Sailing Club	AL015
56	Public Inn	AL015
57	Restaurant	AL015
58	Observation	AL015
60	University/College	AL015
61	Courthouse	AL015
62	Legation	AL015
63	Mission	AL015
64	Chancery	AL015
65	Ambassadorial Residence	AL015
66	Embassy	AL015
67	Consulate	AL015
69	Guard Shack/Guard Room	AL015
70	Kennel	AL015
77	Harbor Masters Office	AL015
78	Marine Police	AL015
79	Rescue	AL015
80	Port Control	AL015
82	Lighthouse	AL015
87	Auditorium	AL015
88	Opera House	AL015
91	Mobile Home	AL015
92	Weather Station	AL015
93	Dependents Housing/ Bivouac Area	AL015

TABLE E-99. Buildings Area Feature Table (Continued).

	95	Hotel	AL015
	96	Diplomatic Building	AL015
	97	Trading Post	AL015
	98	Shed	AL015
	99	Battery	AL015
	100	Medical Center	AL015
	101	Municipal Hall	AL015
	103	Outbuilding	AL015
	105	Reformatory	AL015
	106	Sanitorium	AL015
	107	Satellite Tracking Station	AL015
	108	Seminary	AL015
	109	Senior Citizen's Home	AL015
	111	Sportsplex	AL015
	114	Non-Christian Place of Worship	AL015
	115	Hostel	AL015
	117	Motel	AL015
	118	Community Center	AL015
	119	City Hall	AL015
	121	Armory	AL015
	122	Shopping Center	AL015
	123	Correctional Institute	AL015
	126	Astronomical Station	AL015
	127	Theater	AL015
	128	Library	AL015
	723	Combined Fire and Police Station	AL015
	999	Other	AL015
ebt	Educational Building Type		
	0	Unknown	AL015
	1	Academy	AL015
	2	College	AL015
	3	Educational Center	AL015
	4	Lyceum	AL015
	5	University	AL015
	6	Seminary	AL015
	8	Not Applicable	AL015
	999	Other	AL015
exs	Existence Category		
	0	Unknown	AL015
	5	Under Construction	AL015
	6	Abandoned/Disused	AL015
	7	Destroyed	AL015
	28	Operational	AL015

TABLE E-99. Buildings Area Feature Table (Continued).

hgt	Height Above Surface Level (meters)			
		0	Unknown	AL015
		>0	Actual Value	AL015
hwt	House of Worship Type			
		0	Unknown	AL015 **bfc**=7 or 114
		2	Cathedral	AL015 **bfc**=7 or 114
		3	Chapel	AL015 **bfc**=7 or 114
		4	Church	AL015 **bfc**=7 or 114
		5	Marabout	AL015 **bfc**=7 or 114
		6	Minaret	AL015 **bfc**=7 or 114
		7	Monastery, Convent	AL015 **bfc**=7 or 114
		9	Mosque	AL015 **bfc**=7 or 114
		11	Pagoda	AL015 **bfc**=7 or 114
		14	Shrine	AL015 **bfc**=7 or 114
		15	Tabernacle	AL015 **bfc**=7 or 114
		16	Temple	AL015 **bfc**=7 or 114
		20	Synagogue	AL015 **bfc**=7 or 114
		21	Stupa	AL015 **bfc**=7 or 114
		22	Not Applicable	AL015 **bfc**<>7 or 114
		23	Any	AL015 **bfc**=7 or 114
idn	Identification Number			
		0	Unknown	AL015
		Any		AL015
nam	Name			
		Character text string		AL015
		"UNK" (no name present for feature)		AL015
ssr	Structure Shape of Roof			
		0	Unknown	AL015
		6	Conical/Peaked/NUN	AL015
		38	Curved/Round (Quonset)	AL015
		40	Dome	AL015
		41	Flat	AL015
		42	Gable (Pitched)	AL015
		47	Sawtooth	AL015
		50	With Monitor	AL015
		51	With Steeple	AL015
		55	Flat with Monitor	AL015
		64	Gable with Monitor	AL015
		77	With Cupola	AL015
		78	With Turret	AL015
		79	With Tower	AL015
		80	With Minaret	AL015
		999	Other	AL015

TABLE E-99. Buildings Area Feature Table (Continued).

use	Usage			
		0	Unknown	AL015
		4	National	AL015
		5	State	AL015
		6	Private	AL015
		8	Military	AL015
		22	Joint Military/Civilian	AL015
		23	International	AL015
		43	Institutional	AL015
		49	Civilian/Public	AL015
		120	Recreational	AL015
		130	Transportation	AL015
		991	Not Applicable	AL015
		999	Other	AL015

TABLE E-100. Built-Up Area Area Feature Table.

Thematic Layer: Population
Coverage Name: **pop**
Table Description: Built-Up Area Area Feature Table
Table Name: **builtupa.aft**
dq Layer Number: 6

```
{Header length}L;
Built-Up Area Area Feature Table;-;
id=I,1,P,Row Identifier,-,-,-,:
f_code=T,5,N,FACC Feature Code,char.vdt,-,-,:
ara=S,1,N,Area Coverage Attribute (sq. meters),int.vdt,-,-,:
arh=S,1,N,Area Coverage Attribute Hectares,-,-,-,:
bac=S,1,N,Built-Up Area Classification,int.vdt,-,-,:
cdv=T,*,N,Calendar Date Value,char.vdt,-,-,:
dmr=S,1,N,Density Measure(% of Roof Cover),int.vdt,-,-,:
exs=S,1,N,Existence Category,int.vdt,-,-,:
nam=T,*,N,Name,char.vdt,-,-,:
ppl=S,1,N,Populated Place Category,int.vdt,-,-,:;
```

Column	**Description**	**Value**	**Value Meaning**	**Applicable f_code for Each Attribute Value**
id	Row Identifier	Sequential beginning with 1		
f_code	FACC Feature Code			
		AL020	Built-Up Area	
ara	Area Coverage Attribute (sq. meters)			
		-32768	Null	AL020 **arh**>0
		0	Unknown	AL020 **arh**=-32768
		>0	Actual Value	AL020 **arh**=-32768
arh	Area Coverage Attribute Hectares			
		-32768	Null	AL020 **ara**>=0
		>0	Actual Value	AL020 **ara**=-32768
bac	Built-Up Area Classification			
		0	Unknown	AL020
		1	Sparse to Moderate	AL020
		2	Dense	AL020
cdv	Calendar Date Value (associated with PPL value)			
		”UNK”	Unknown	AL020
		YYYYMMDD	Actual Value	AL020
dmr	Density Measure (% of Roof Cover)			
		0	Unknown	AL020
		>0	Actual Value	AL020

TABLE E-100. Built-Up Area Area Feature Table (Continued).

exs	Existence Category			
		0	Unknown	AL020
		1	Definite	AL020
		7	Destroyed	AL020
		62	Partially Destroyed	AL020
		999	Other	AL020
nam	Name			
		Character text string		AL020
		"UNK" (no name present for feature)		AL020
ppl	Populated Place Category			
		0	Unknown	AL020
		>0	Actual Value	AL020

TABLE E-101. Complex Area Area Feature Table.

Thematic Layer: Population
Coverage Name: **pop**
Table Description: Complex Area Area Feature Table
Table Name: **cmpxpopa.aft**
dq Layer Number: 6

```
{Header length}L;
Complex Area Area Feature Table;-;
id=I,1,P,Row Identifier,-,-,-,:
f_code=T,5,N,FACC Feature Code,char.vdt,-,-,:
ara=S,1,N,Area Coverage Attribute (sq. meters),int.vdt,-,-,:
arh=S,1,N,Area Coverage Attribute Hectares,-,-,-,:
bfc=S,1,N,Building Function Category,int.vdt,-,-,:
ebt=S,1,N,Educational Building Type,int.vdt,-,-,:
exs=S,1,N,Existence Category,int.vdt,-,-,:
hgt=S,1,N,Height Above Surface Level (meters),int.vdt,-,-,:
hwt=S,1,N,House of Worship Type,int.vdt,-,-,:
idn=T,*,N,Identification Number,char.vdt,-,-,:
loc=S,1,N,Location Category,int.vdt,-,-,:
nam=T,*,N,Name,char.vdt,-,-,:
use=S,1,N,Usage,int.vdt,-,-,:;
```

Column	Description	Value	Value Meaning	Applicable f_code for Each Attribute Value
id	Row Identifier	Sequential beginning with 1		
f_code	FACC Feature Code			
		AL045	Complex Outline	
ara	Area Coverage Attribute (sq. meters)			
		-32768	Null	AL045 **arh**>0
		0	Unknown	AL045 **arh**=-32768
		>0	Actual Value	AL045 **arh**=-32768
arh	Area Coverage Attribute Hectares			
		-32768	Null	AL045 **ara**>=0
		>0	Actual Value	AL045 **ara**=-32768
bfc	Building Function Category			
		0	Unknown	AL045
		2	Government Building	AL045
		3	Capitol Building	AL045
		4	Castle	AL045
		5	Government Administration Building	AL045
		6	Hospital	AL045
		7	House of Worship	AL045
		8	Military Administration/ Operations Building	AL045

TABLE E-101. Complex Area Area Feature Table (Continued).

9	Museum	AL045
10	Observatory	AL045
11	Palace	AL045
12	Police Station	AL045
13	Prison	AL045
14	Ranger Station	AL045
15	School	AL045
16	House	AL045
17	Multi Unit Dwelling	AL045
18	Cemetery Building	AL045
19	Farm Building	AL045
20	Greenhouse	AL045
28	Administration Building	AL045
31	Customs House	AL045
33	Health Office	AL045
34	Firing Range	AL045
35	Post Office	AL045
36	Barracks/Dormitory	AL045
37	Fire Station	AL045
38	Jail	AL045
39	Guardhouse	AL045
50	Church	AL045
51	Market	AL045
52	Town Hall	AL045
53	Bank	AL045
55	Yacht Club/Sailing Club	AL045
56	Public Inn	AL045
57	Restaurant	AL045
58	Observation	AL045
60	University/College	AL045
61	Courthouse	AL045
62	Legation	AL045
63	Mission	AL045
64	Chancery	AL045
65	Ambassadorial Residence	AL045
66	Embassy	AL045
67	Consulate	AL045
69	Guard Shack/Guard Room	AL045
70	Kennel	AL045
77	Harbor Masters Office	AL045
78	Marine Police	AL045
79	Rescue	AL045
80	Port Control	AL045
82	Lighthouse	AL045
87	Auditorium	AL045
88	Opera House	AL045
91	Mobile Home	AL045
92	Weather Station	AL045

TABLE E-101. Complex Area Area Feature Table (Continued).

	93	Dependents Housing/ Bivouac Area	AL045
	95	Hotel	AL045
	96	Diplomatic Building	AL045
	97	Trading Post	AL045
	98	Shed	AL045
	99	Battery	AL045
	100	Medical Center	AL045
	101	Municipal Hall	AL045
	103	Outbuilding	AL045
	105	Reformatory	AL045
	106	Sanitorium	AL045
	107	Satellite Tracking Station	AL045
	108	Seminary	AL045
	109	Senior Citizen's Home	AL045
	111	Sportsplex	AL045
	114	Non-Christian Place of Worship	AL045
	115	Hostel	AL045
	117	Motel	AL045
	118	Community Center	AL045
	119	City Hall	AL045
	121	Armory	AL045
	122	Shopping Center	AL045
	123	Correctional Institute	AL045
	126	Astronomical Station	AL045
	127	Theater	AL045
	128	Library	AL045
	723	Combined Fire and Police Station	AL045
	999	Other	AL045
ebt	Educational Building Type		
	0	Unknown	AL045
	1	Academy	AL045
	2	College	AL045
	3	Educational Center	AL045
	4	Lyceum	AL045
	5	University	AL045
	6	Seminary	AL045
	8	Not Applicable	AL045
	999	Other	AL045
exs	Existence Category		
	0	Unknown	AL045
	5	Under Construction	AL045
	6	Abandoned/Disused	AL045
	7	Destroyed	AL045
	28	Operational	AL045

TABLE E-101. Complex Area Area Feature Table (Continued).

hgt	Height Above Surface Level (meters)			
	0	Unknown	AL045	
	>0	Actual Value	AL045	
hwt	House of Worship Type			
	0	Unknown	AL045	**bfc**=7 or 114
	2	Cathedral	AL045	**bfc**=7 or 114
	3	Chapel	AL045	**bfc**=7 or 114
	4	Church	AL045	**bfc**=7 or 114
	5	Marabout	AL045	**bfc**=7 or 114
	6	Minaret	AL045	**bfc**=7 or 114
	7	Monastery, Convent	AL045	**bfc**=7 or 114
	9	Mosque	AL045	**bfc**=7 or 114
	11	Pagoda	AL045	**bfc**=7 or 114
	14	Shrine	AL045	**bfc**=7 or 114
	15	Tabernacle	AL045	**bfc**=7 or 114
	16	Temple	AL045	**bfc**=7 or 114
	20	Synagogue	AL045	**bfc**=7 or 114
	21	Stupa	AL045	**bfc**=7 or 114
	22	Not Applicable	AL045	**bfc**<>7 or 114
	23	Any	AL045	**bfc**=7 or 114
idn	Identification Number			
	0	Unknown	AL045	
	Any		AL045	
loc	Location Category			
	0	Unknown	AL045	
	4	Below Surface/ Submerged/Underground	AL045	
	8	On Ground Surface	AL045	
	25	Suspended/Elevated Above Ground or Water Surface	AL045	
nam	Name			
	Character text string		AL045	
	"UNK" (no name present for feature)		AL045	

TABLE E-101. Complex Area Area Feature Table (Continued).

use	Usage			
		0	Unknown	AL045
		4	National	AL045
		5	State	AL045
		6	Private	AL045
		8	Military	AL045
		22	Joint Military/Civilian	AL045
		23	International	AL045
		43	Institutional	AL045
		49	Civilian/Public	AL045
		57	Marine	AL045
		120	Recreational	AL045
		130	Transportation	AL045
		991	Not Applicable	AL045
		999	Other	AL045

TABLE E-102. Landmark Area Feature Table.

Thematic Layer: Population
Coverage Name: **pop**
Table Description: Landmark Area Feature Table
Table Name: **landmrka.aft**
dq Layer Number: 6

```
{Header length}L;
Landmark Area Feature Table;-;
id=I,1,P,Row Identifier,-,-,-,:
f_code=T,5,N,FACC Feature Code,char.vdt,f_code4.ati,-,:
ara=S,1,N,Area Coverage Attribute (sq. meters),int.vdt,-,-,:
arh=S,1,N,Area Coverage Attribute Hectares,-,-,-,:
hgt=S,1,N,Height Above Surface Level (meters),int.vdt,-,-,:
nam=T,*,N,Name,char.vdt,-,-,:
rel=S,1,N,Religious Denomination,int.vdt,-,-,:;
```

Column	**Description**	**Value**	**Value Meaning**	**Applicable f_code for Each Attribute Value**
id	Row Identifier	Sequential beginning with 1		
f_code	FACC Feature Code			
		AK030	Amusement Park	
		AK040	Athletic Field	
		AK060	Campground/Campsite	
		AK070	Drive In Theater	
		AK090	Fairgrounds	
		AK100	Golf Course	
		AK110	Grandstand	
		AK120	Park	
		AK130	Race Track	
		AK160	Stadium/Amphitheater	
		AK170	Swimming Pool	
		AK180	Zoo/Safari Park	
		AL030	Cemetery	
		AL130	Monument	
		AQ150	Flight of Steps	
		BH075	Fountain	
ara	Area Coverage Attribute (sq. meters)			
		-32768	Null	AK030 **arh**>0, AK040 **arh**>0, AK060 **arh**>0, AK070 **arh**>0, AK090 **arh**>0, AK100 **arh**>0, AK110, AK120 **arh**>0, AK130 **arh**>0, AK160 **arh**>0,

TABLE E-102. Landmark Area Feature Table (Continued).

				AK170 **arh**>0, AK180 **arh**>0, AL030 **arh**>0, AL130 **arh**>0, AQ150, BH075
		0	Unknown	AK030 **arh**=-32768, AK040 **arh**=-32768, AK060 **arh**=-32768, AK070 **arh**=-32768, AK090 **arh**=-32768, AK100 **arh**=-32768, AK120 **arh**=-32768, AK130 **arh**=-32768, AK160 **arh**=-32768, AK170 **arh**=-32768, AK180 **arh**=-32768, AL030 **arh**=-32768, AL130 **arh**=-32768
		>0	Actual Value	AK030 **arh**=-32768, AK040 **arh**=-32768, AK060 **arh**=-32768, AK070 **arh**=-32768, AK090 **arh**=-32768, AK100 **arh**=-32768, AK120 **arh**=-32768, AK130 **arh**=-32768, AK160 **arh**=-32768, AK170 **arh**=-32768, AK180 **arh**=-32768, AL030 **arh**=-32768, AL130 **arh**=-32768
arh	Area Coverage Attribute Hectares			
		-32768	Null	AK030 **ara**>=0, AK040 **ara**>=0, AK060 **ara**>=0, AK070 **ara**>=0, AK090 **ara**>=0, AK100 **ara**>=0, AK110, AK120 **ara**>=0, AK130 **ara**>=0, AK160 **ara**>=0, AK170 **ara**>=0, AK180 **ara**>=0, AL030 **ara**>=0, AL130 **ara**>=0, AQ150, BH075

TABLE E-102. Landmark Area Feature Table (Continued).

		>0	Actual Value	AK030 **ara**=-32768, AK040 **ara**=-32768, AK060 **ara**=-32768, AK070 **ara**=-32768, AK090 **ara**=-32768, AK100 **ara**=-32768, AK120 **ara**=-32768, AK130 **ara**=-32768, AK160 **ara**=-32768, AK170 **ara**=-32768, AK180 **ara**=-32768, AL030 **ara**=-32768, AL130 **ara**=-32768
hgt	Height Above Surface Level (meters)			
		-32768	Null	AK030, AK040, AK060, AK070, AK090, AK100, AK110, AK120, AK130, AK170, AK180, AL030
		0	Unknown	AK160, AL130, AQ150, BH075
		>0	Actual Value	AK160, AL130, AQ150, BH075
nam	Name			
		VLT=0-length	Null	AK070, AK110, AK170
		Character text string		AK030, AK040, AK060, AK090, AK100, AK120, AK130, AK160, AK180, AL030, AL130, AQ150, BH075
		"UNK" (no name present for feature)		AK030, AK040, AK060, AK090, AK100, AK120, AK130, AK160, AK180, AL030, AL130, AQ150, BH075

TABLE E-102. Landmark Area Feature Table (Continued).

rel	Religious Denomination			
	-32768	Null	AK030, AK040, AK060, AK070, AK090, AK100, AK110, AK120, AK130, AK160, AK170, AK180, AL130, AQ150, BH075	
	0	Unknown	AL030	
	1	Buddhist	AL030	
	2	Moslem	AL030	
	3	Roman Catholic	AL030	
	4	Christian (undefined)	AL030	
	5	Judaism	AL030	
	6	Greek Orthodox	AL030	
	7	Protestant	AL030	
	8	Shinto	AL030	
	999	Other	AL030	

TABLE E-103. Military Area Feature Table.

Thematic Layer: Population
Coverage Name: **pop**
Table Description: Military Area Feature Table
Table Name: **mila.aft**
dq Layer Number: 6

```
{Header length}L;
Military Area Feature Table;-;
ID=I,1,P,Row Identifier,-,-,-,:
f_code=T,5,N,FACC Feature Code,char.vdt,f_code5.ati,-,:
exs=S,1,N,Existence Category,int.vdt,-,-,:
frt=S,1,N,Firing Range Type,int.vdt,-,-,:
loc=S,1,N,Location Category,int.vdt,-,-,:
mcc=S,1,N,Material Composition Category,int.vdt,-,-,:
mst=S,1,N,Missile Site Type,int.vdt,-,-,:
nam=T,*,N,Name,char.vdt,-,-,:
ysu=S,1,N,Service Branch,int.vdt,-,-,:;
```

Column	Description	Value	Value Meaning	Applicable f_code for Each Attribute Value
id	Row Identifier	Sequential beginning with 1		
f_code	FACC Feature Code			
		AH010	Bastion/Rampart/Fortification	
		AH050	Fortification	
		AH060	Underground Bunker	
		AL120	Missile Site	
		AT020	Early Warning Radar Site	
		AT045	Radar Transmitter	
		FA015	Firing Range/Gunnery Range	
exs	Existence Category			
		0	Unknown	AH010, AH050, AH060, AL120, AT045, AT020, FA015
		5	Under Construction	AH010, AH050, AH060, AL120, AT045, AT020, FA015
		6	Abandoned/Disused	AH010, AH050, AH060, AL120, AT045, AT020, FA015
		11	Temporary	AH010, AH050, AH060, AL120, AT045, AT020, FA015
		28	Operational	AH010, AH050, AH060, AL120, AT045, AT020, FA015

TABLE E-103. Military Area Feature Table (Continued).

frt	Firing Range Type			
		-32768	Null	AH010, AH050, AH060, AL120, AT045, AT020
		0	Unknown	FA015
		1	Rifle/Small Arms	FA015
		2	Tank	FA015
		3	Artillery	FA015
		4	Grenade	FA015
		5	Demolition area	FA015
		6	Impact area	FA015
		999	Other	FA015
loc	Location Category			
		-32768	Null	AH060
		0	Unknown	AH010, AH050, AL120, AT045, AT020, FA015
		4	Below Surface/ Submerged/Underground	AH010, AH050, AL120, AT045, AT020, FA015
		8	On Ground Surface	AH010, AH050, AL120, AT045, AT020, FA015
		25	Suspended/Elevated Above Ground or Water Surface	AT045
mcc	Material Composition Category			
		-32768	Null	AT045, AT020
		0	Unknown	AH010, AH050, AH060, AL120, FA015
		8	Boulders	AH010, AH050, AH060, AL120, FA015
		9	Brick	AH010, AH050, AH060, AL120, FA015
		21	Concrete	AH010, AH050, AH060, AL120, FA015
		30	Earthen	AH010, AH050, AH060, AL120, FA015
		62	Masonry (Brick/Stone)	AH010, AH050, AH060, AL120, FA015
		83	Reinforced Concrete	AH010, AH050, AH060, AL120, FA015
		117	Wood	AH010, AH050, AH060, AL120, FA015
mst	Missile Site Type			
		-32768	Null	AH010, AH050, AH060, AT045, AT020, FA015
		0	Unknown	AL120
		1	ABM	AL120

TABLE E-103. Military Area Feature Table (Continued).

		2	ICBM	AL120
		3	IRBM	AL120
		4	SA1	AL120
		5	SA2	AL120
		6	SA3	AL120
		7	SA4	AL120
		8	SA5	AL120
		9	SA6	AL120
		10	SA7	AL120
		11	SA8	AL120
		12	SA9	AL120
		13	MRBM	AL120
		14	SSM	AL120
		15	SAM	AL120
		999	Other	AL120
nam	Name			
		Character text string		AH010, AH050, AH060, AL120, AT045, AT020, FA015
		"UNK" (no name present for feature)		AH010, AH050, AH060, AL120, AT045, AT020, FA015
ysu	Service Branch			
		0	Unknown	AH010, AH050, AH060, AL120, AT045, AT020, FA015
		1	Airforce	AH010, AH050, AH060, AL120, AT045, AT020, FA015
		2	Army	AH010, AH050, AH060, AL120, AT045, AT020, FA015
		3	Coast Guard	AH010, AH050, AH060, AL120, AT045, AT020, FA015
		4	Marines	AH010, AH050, AH060, AL120, AT045, AT020, FA015
		5	Navy	AH010, AH050, AH060, AL120, AT045, AT020, FA015
		6	Other	AH010, AH050, AH060, AL120, AT045, AT020, FA015
		7	Joint	AH010, AH050, AH060, AL120, AT045, AT020, FA015

TABLE E-104. Miscellaneous Population Area Feature Table.

Thematic Layer: Population
Coverage Name: **pop**
Table Description: Miscellaneous Population Area Feature Table
Table Name: **mispopa.aft**
dq Layer Number: 6

```
{Header length}L;
Miscellaneous Population Area Feature Table;-;
id=I,1,P,Row Identifier,-,-,-,:
f_code=T,5,N,FACC Feature Code,char.vdt,f_code6.ati,-,:
cfd=S,1,N,Cultural Feature Density,int.vdt,-,-,:
nam=T,*,N,Name,char.vdt,-,-,:
nas=S,1,N,Native Settlement Type,int.vdt,-,-,:
ppt=S,1,N,Populated Place Type,int.vdt,-,-,:;
```

Column	**Description**	**Value**	**Value Meaning**	**Applicable f_code for Each Attribute Value**
id	Row Identifier	Sequential beginning with 1		
f_code	FACC Feature Code			
		AL135	Native Settlement	
		AL250	Underground Dwelling	
cfd	Cultural Feature Density			
		-32768	Null	AL250
		0 to 100		AL135
		999	Unknown	AL135
nam	Name			
		Character text string		AL135, AL250
		"UNK" (no name present for feature)		AL135, AL250
nas	Native Settlement Type			
		-32768	Null	AL250
		0	Unknown	AL135
		1	Centralized Habitation	AL135
		2	Continuous Habitation	AL135
ppt	Populated Place Type			
		-32768	Null	AL250
		0	Unknown	AL135
		1	Native Settlement	AL135
		2	Shanty town	AL135
		3	Tent Dwellings	AL135

TABLE E-105. Mobile Home Area Feature Table.

Thematic Layer: Population
Coverage Name: **pop**
Table Description: Mobile Home Area Feature Table
Table Name: **mobilea.aft**
dq Layer Number: 6

```
{Header length}L;
Mobile Home Area Feature Table;-;
id=I,1,P,Row Identifier,-,-,-,:
f_code=T,5,N,FACC Feature Code,char.vdt,-,-,:
ara=S,1,N,Area Coverage Attribute (sq. meters),int.vdt,-,-,:
arh=S,1,N,Area Coverage Attribute Hectares,-,-,-,:;
```

Column	Description	Value	Value Meaning	Applicable f_code for Each Attribute Value
id	Row Identifier	Sequential beginning with 1		
f_code	FACC Feature Code			
		AI020	Mobile Home/Mobile Home Park	
ara	Area Coverage Attribute (sq. meters)			
		-32768	Null	AI020 **arh**>0
		0	Unknown	AI020 **arh**=-32768
		>0	Actual Value	AI020 **arh**=-32768
arh	Area Coverage Attribute Hectares			
		-32768	Null	AI020 **ara**>=0
		>0	Actual Value	AI020 **ara**=-32768

TABLE E-106. Plaza Area Feature Table.

Thematic Layer: Population
Coverage Name: **pop**
Table Description: Plaza Area Feature Table
Table Name: **plazaa.aft**
dq Layer Number: 6

```
{Header length}L;
Plaza Area Feature Table;-;
id=I,1,P,Row Identifier,-,-,-,:
f_code=T,5,N,FACC Feature Code,char.vdt,-,-,:
nam=T,*,N,Name,char.vdt,-,-,:;
```

Column	Description	Value	Value Meaning	Applicable f_code for Each Attribute Value
id	Row Identifier	Sequential beginning with 1		
f_code	FACC Feature Code			
		AL170	Plaza/City Square	
nam	Name			
		Character text string		AL170
		"UNK" (no name present for feature)		AL170

TABLE E-107. Ruins Area Feature Table.

Thematic Layer: Population
Coverage Name: **pop**
Table Description: Ruins Area Feature Table
Table Name: **ruinsa.aft**
dq Layer Number: 6

```
{Header length}L;
Ruins Area Feature Table;-;
id=I,1,P,Row Identifier,-,-,-,:
f_code=T,5,N,FACC Feature Code,char.vdt,-,-,:
ara=S,1,N,Area Coverage Attribute (sq. meters),int.vdt,-,-,:
arh=S,1,N,Area Coverage Attribute Hectares,-,-,-,:
hgt=S,1,N,Height Above Surface Level (meters),int.vdt,-,-,:
loc=S,1,N,Location Category,int.vdt,-,-,:
nam=T,*,N,Name,char.vdt,-,-,:;
```

Column	**Description**	**Value**	**Value Meaning**	**Applicable f_code for Each Attribute Value**
id	Row Identifier	Sequential beginning with 1		
f_code	FACC Feature Code			
		AL200	Ruins	
ara	Area Coverage Attribute (sq. meters)			
		-32768	Null	AL200 **arh**>0
		0	Unknown	AL200 **arh**=-32768
		>0	Actual Value	AL200 **arh**=-32768
arh	Area Coverage Attribute Hectares			
		-32768	Null	AL200 **ara**>=0
		>0	Actual Value	AL200 **ara**=-32768
hgt	Height Above Surface Level (meters)			
		0	Unknown	AL200
		>0	Actual Value	AL200
loc	Location Category			
		0	Unknown	AL200
		8	On Ground Surface	AL200
nam	Name	Character text string		AL200
		"UNK" (no name present for feature)		AL200

TABLE E-108. Population Text Feature Table.

Thematic Layer: Population
Coverage Name: **pop**
Table Description: Population Text Feature Table
Table Name: **poptxt.tft**
dq Layer Number: 6

```
{Header length}L;
Population Text Feature Table;-;
id=I,1,P,Row Identifier,-,-,-,:
f_code=T,5,N,FACC Feature Code,char.vdt,f_code1.tti,-,:
symbol_id=S,1,N,Symbol Identification,-,-,-,:
tile_id=S,1,N,Tile Reference ID,-,tile1_id.tti,-,:
txt_id=I,1,N,Text Primitive ID,-,txt1_id.tti,-,:;
```

Column	Description	Value	Value Meaning
id	Row Identifier	Sequential beginning with 1	
f_code	FACC Feature Code		
		ZD040	Named Location
		ZD045	Text Description
symbol_id	Symbol Identification (Refer to Symbol Related Attribute Table for selection of values)		

TABLE E-109. Population Feature Class Attribute Table

Thematic Layer: Population
Coverage Name: **pop**
Table Description: Population Feature Class Attribute Table
Table Name: **fca**
dq Layer Number: 6

{Header length}L; Population Feature Class Attribute Table;-; id=I,1,P,Row Identifier,-,-,-,: fclass=T,8,U,Feature Class Name,-,-,-,: type=T,1,N,Feature Type,char.vdt,-,-,: descr=T,*,N,Description,-,-,-,:;			
1 : n	bldpopp : n	P : n	Buildings Points : n

Column	**Description**	**Value**	**Value Meaning**	**Applicable fclass for Each Attribute Value**
id	Row Identifier	Sequential beginning with 1		
fclass	Feature Class Name			
		bldpopp		
		landmrkp		
		milp		
		mispopp		
		ruinsp		
		bldpopl		
		landmrkl		
		mill		
		bldpopa		
		builtupa		
		cmpxpopa		
		landmrka		
		mila		
		mispopa		
		mobilea		
		plazaa		
		ruinsa		
		poptxt		
type	Feature Type	P	Point/Node Feature	bldpopp, landmrkp, milp, mispopp, ruinsp
		L	Line Feature	bldpopl, landmrkl, mill
		A	Area Feature	bldpopa, builtupa, cmpxpopa, landmrka, mila, mispopa, mobilea, plazaa, ruinsa
		T	Text Feature	poptxt

TABLE E-109. Population Feature Class Attribute Table (Continued)

descr	Description	Buildings Points	bldpopp
		Landmark Points	landmrkp
		Military Points	milp
		Miscellaneous Population Points	mispopp
		Ruins Points	ruinsp
		Buildings Lines	bldpopl
		Landmark Lines	landmrkl
		Military Lines	mill
		Buildings Areas	bldpopa
		Built-Up Area Areas	builtupa
		Complex Area Areas	cmpxpopa
		Landmark Areas	landmrka
		Military Areas	mila
		Miscellaneous Population Areas	mispopa
		Mobile Home Areas	mobilea
		Plaza Areas	plazaa
		Ruins Areas	ruinsa
		Population Coverage Text	poptxt

TABLE E-110. Population Character Value Description Table.

Thematic Layer: Population
Coverage Name: **pop**
Table Description: Population Character Value Description Table
Table Name: **char.vdt**
dq Layer Number: 6

```
{Header length}L;
Population Character Value Description Table;-;
id=I,1,P,Row Identifier,-,-,-,:
table=T,12,N,Name of the Feature Table,-,-,-,:
attribute=T,6,N,Column Name,-,-,-,:
value=T,5,N,Unique Value of Attribute,-,-,-,:
description=T,29,N,Description of Value,-,-,-,:;
```

1	bldpopp.pft	f_code	AL015	Building
2	bldpopp.pft	idn	0	Unknown
3	bldpopp.pft	nam	UNK	No name present
4	landmrkp.pft	f_code	AK020	Amusement Park Attraction
5	landmrkp.pft	f_code	AK150	Ski Jump
6	landmrkp.pft	f_code	AL030	Cemetery
7	landmrkp.pft	f_code	AL130	Monument
8	landmrkp.pft	f_code	BH075	Fountain
9	landmrkp.pft	nam	UNK	No name present
10	milp.pft	f_code	AH010	Bastion/Rampart/Fortification
11	milp.pft	f_code	AH050	Fortification
12	milp.pft	f_code	AH060	Underground Bunker
13	milp.pft	f_code	AL120	Missile Site
14	milp.pft	f_code	AT020	Early Warning Radar Site
15	milp.pft	f_code	AT045	Radar Transmitter
16	milp.pft	f_code	FA015	Firing Range/Gunnery Range
17	milp.pft	nam	UNK	No name present
18	mispopp.pft	f_code	AL100	Hut
19	mispopp.pft	f_code	AL135	Native Settlement
20	mispopp.pft	f_code	AL250	Underground Dwelling
21	mispopp.pft	nam	UNK	No name present
22	ruinsp.pft	f_code	AL200	Ruins
23	ruinsp.pft	nam	UNK	No name present
24	dqpoint.pft	f_code	AL015	Building
25	dqpoint.pft	f_code	AK020	Amusement Park Attraction
26	dqpoint.pft	f_code	AK150	Ski Jump
27	dqpoint.pft	f_code	AL030	Cemetery
28	dqpoint.pft	f_code	AL130	Monument
29	dqpoint.pft	f_code	BH075	Fountain
30	dqpoint.pft	f_code	AH010	Bastion/Rampart/Fortification
31	dqpoint.pft	f_code	AH050	Fortification
32	dqpoint.pft	f_code	AH060	Underground Bunker
33	dqpoint.pft	f_code	AL120	Missile Site
34	dqpoint.pft	f_code	AT020	Early Warning Radar Site
35	dqpoint.pft	f_code	AT045	Radar Transmitter
36	dqpoint.pft	f_code	FA015	Firing Range/Gunnery Range

TABLE E-110. Population Character Value Description Table (Continued).

37	dqpoint.pft	f_code	AL100	Hut
38	dqpoint.pft	f_code	AL135	Native Settlement
39	dqpoint.pft	f_code	AL250	Underground Dwelling
40	dqpoint.pft	f_code	AL200	Ruins
41	dqpoint.pft	f_code	ZD045	Text Description
42	bldpopl.lft	f_code	AL015	Building
43	bldpopl.lft	idn	0	Unknown
44	bldpopl.lft	nam	UNK	No name present
45	landmrkl.lft	f_code	AK130	Race Track
46	landmrkl.lft	f_code	AK150	Ski Jump
47	landmrkl.lft	nam	UNK	No name present
48	mill.lft	f_code	AH010	Bastion/Rampart/Fortification
49	mill.lft	f_code	AH050	Fortification
50	mill.lft	f_code	AH060	Underground Bunker
51	mill.lft	f_code	AL120	Missile Site
52	mill.lft	f_code	AT020	Early Warning Radar Site
53	mill.lft	f_code	AT045	Radar Transmitter
54	mill.lft	f_code	FA015	Firing Range/Gunnery Range
55	mill.lft	nam	UNK	No name present
56	dqline.lft	f_code	AL015	Building
57	dqline.lft	f_code	AK130	Race Track
58	dqline.lft	f_code	AK150	Ski Jump
59	dqline.lft	f_code	AH010	Bastion/Rampart/Fortification
60	dqline.lft	f_code	AH050	Fortification
61	dqline.lft	f_code	AH060	Underground Bunker
62	dqline.lft	f_code	AL120	Missile Site
63	dqline.lft	f_code	AT020	Early Warning Radar Site
64	dqline.lft	f_code	AT045	Radar Transmitter
65	dqline.lft	f_code	FA015	Firing Range/Gunnery Range
66	dqline.lft	f_code	ZD045	Text Description
67	bldpopa.aft	f_code	AL015	Building
68	bldpopa.aft	idn	0	Unknown
69	bldpopa.aft	nam	UNK	No name present
70	builtupa.aft	f_code	AL020	Built-Up Area
71	builtupa.aft	cdv	UNK	Unknown
72	builtupa.aft	nam	UNK	No name present
73	cmpxpopa.aft	f_code	AL045	Complex Outline
74	cmpxpopa.aft	idn	0	Unknown
75	cmpxpopa.aft	nam	UNK	No name present
76	landmrka.aft	f_code	AK030	Amusement Park
77	landmrka.aft	f_code	AK040	Athletic Field
78	landmrka.aft	f_code	AK060	Campground/Campsite
79	landmrka.aft	f_code	AK070	Drive In Theater
80	landmrka.aft	f_code	AK090	Fairgrounds
81	landmrka.aft	f_code	AK100	Golf Course
82	landmrka.aft	f_code	AK110	Grandstand
83	landmrka.aft	f_code	AK120	Park
84	landmrka.aft	f_code	AK130	Race Track
85	landmrka.aft	f_code	AK160	Stadium/Amphitheater

TABLE E-110. Population Character Value Description Table (Continued).

86	landmrka.aft	f_code	AK170	Swimming Pool
87	landmrka.aft	f_code	AK180	Zoo/Safari Park
88	landmrka.aft	f_code	AL030	Cemetery
89	landmrka.aft	f_code	AL130	Monument
90	landmrka.aft	f_code	AQ150	Flight of Steps
91	landmrka.aft	f_code	BH075	Fountain
92	landmrka.aft	nam	UNK	No name present
93	mila.aft	f_code	AH010	Bastion/Rampart/Fortification
94	mila.aft	f_code	AH050	Fortification
95	mila.aft	f_code	AH060	Underground Bunker
96	mila.aft	f_code	AL120	Missile Site
97	mila.aft	f_code	AT020	Early Warning Radar Site
98	mila.aft	f_code	AT045	Radar Transmitter
99	mila.aft	f_code	FA015	Firing Range/Gunnery Range
100	mila.aft	nam	UNK	No name present
101	mispopa.aft	f_code	AL135	Native Settlement
102	mispopa.aft	f_code	AL250	Underground Dwelling
103	mispopa.aft	nam	UNK	No name present
104	mobilea.aft	f_code	AI020	Mobile Home/Mobile Home Park
105	plazaa.aft	f_code	AL170	Plaza/City Square
106	plazaa.aft	nam	UNK	No name present
107	ruinsa.aft	f_code	AL200	Ruins
108	ruinsa.aft	nam	UNK	No name present
109	dqarea.aft	f_code	AL015	Building
110	dqarea.aft	f_code	AL020	Built-Up Area
111	dqarea.aft	f_code	AL045	Complex Outline
112	dqarea.aft	f_code	AK030	Amusement Park
113	dqarea.aft	f_code	AK040	Athletic Field
114	dqarea.aft	f_code	AK060	Campground/Campsite
115	dqarea.aft	f_code	AK070	Drive In Theater
116	dqarea.aft	f_code	AK090	Fairgrounds
117	dqarea.aft	f_code	AK100	Golf Course
118	dqarea.aft	f_code	AK110	Grandstand
119	dqarea.aft	f_code	AK120	Park
120	dqarea.aft	f_code	AK130	Race Track
121	dqarea.aft	f_code	AK160	Stadium/Amphitheater
122	dqarea.aft	f_code	AK170	Swimming Pool
123	dqarea.aft	f_code	AK180	Zoo/Safari Park
124	dqarea.aft	f_code	AL030	Cemetery
125	dqarea.aft	f_code	AL130	Monument
126	dqarea.aft	f_code	AQ150	Flight of Steps
127	dqarea.aft	f_code	BH075	Fountain
128	dqarea.aft	f_code	AH010	Bastion/Rampart/Fortification
129	dqarea.aft	f_code	AH050	Fortification
130	dqarea.aft	f_code	AH060	Underground Bunker
131	dqarea.aft	f_code	AL120	Missile Site
132	dqarea.aft	f_code	AT020	Early Warning Radar Site
133	dqarea.aft	f_code	AT045	Radar Transmitter
134	dqarea.aft	f_code	FA015	Firing Range/Gunnery Range

TABLE E-110. Population Character Value Description Table (Continued).

135	dqarea.aft	f_code	AL135	Native Settlement
136	dqarea.aft	f_code	AL250	Underground Dwelling
137	dqarea.aft	f_code	AI020	Mobile Home/Mobile Home Park
138	dqarea.aft	f_code	AL170	Plaza/City Square
139	dqarea.aft	f_code	AL200	Ruins
140	dqarea.aft	f_code	ZD045	Text Description
141	poptxt.tft	f_code	ZD040	Named Location
142	poptxt.tft	f_code	ZD045	Text Description
143	fca	type	A	Area Feature
144	fca	type	L	Line Feature
145	fca	type	P	Point/Node Feature
146	fca	type	T	Text Feature

TABLE E-111. Population Integer Value Description Table.

Thematic Layer: Population
Coverage Name: **pop**
Table Description: Population Integer Value Description Table
Table Name: **int.vdt**
dq Layer Number: 6

```
{Header length}L;
Population Integer Value Description Table;-;
id=I,1,P,Row Identifier,-,-,-,:
table=T,12,N,Name of the Feature Table,-,-,-,:
attribute=T,3,N,Column Name,-,-,-,:
value=S,1,N,Unique Value of Attribute,-,-,-,:
description=T,51,N,Description of Value,-,-,-,:;
```

1	bldpopp.pft	ara	0	Unknown
2	bldpopp.pft	bfc	0	Unknown
3	bldpopp.pft	bfc	2	Government Building
4	bldpopp.pft	bfc	3	Capitol Building
5	bldpopp.pft	bfc	4	Castle
6	bldpopp.pft	bfc	5	Government Administration Building
7	bldpopp.pft	bfc	6	Hospital
8	bldpopp.pft	bfc	7	House of Worship
9	bldpopp.pft	bfc	8	Military Administration/ Operations Building
10	bldpopp.pft	bfc	9	Museum
11	bldpopp.pft	bfc	10	Observatory
12	bldpopp.pft	bfc	11	Palace
13	bldpopp.pft	bfc	12	Police Station
14	bldpopp.pft	bfc	13	Prison
15	bldpopp.pft	bfc	14	Ranger Station
16	bldpopp.pft	bfc	15	School
17	bldpopp.pft	bfc	16	House
18	bldpopp.pft	bfc	17	Multi Unit Dwelling
19	bldpopp.pft	bfc	18	Cemetery Building
20	bldpopp.pft	bfc	19	Farm Building
21	bldpopp.pft	bfc	20	Greenhouse
22	bldpopp.pft	bfc	28	Administration Building
23	bldpopp.pft	bfc	31	Customs House
24	bldpopp.pft	bfc	33	Health Office
25	bldpopp.pft	bfc	34	Firing Range
26	bldpopp.pft	bfc	35	Post Office
27	bldpopp.pft	bfc	36	Barracks/Dormitory
28	bldpopp.pft	bfc	37	Fire Station
29	bldpopp.pft	bfc	38	Jail
30	bldpopp.pft	bfc	39	Guardhouse
31	bldpopp.pft	bfc	50	Church
32	bldpopp.pft	bfc	51	Market
33	bldpopp.pft	bfc	52	Town Hall
34	bldpopp.pft	bfc	53	Bank

TABLE E-111. Population Integer Value Description Table (Continued).

35	bldpopp.pft	bfc	55	Yacht Club/Sailing Club
36	bldpopp.pft	bfc	56	Public Inn
37	bldpopp.pft	bfc	57	Restaurant
38	bldpopp.pft	bfc	58	Observation
39	bldpopp.pft	bfc	60	University/College
40	bldpopp.pft	bfc	61	Courthouse
41	bldpopp.pft	bfc	62	Legation
42	bldpopp.pft	bfc	63	Mission
43	bldpopp.pft	bfc	64	Chancery
44	bldpopp.pft	bfc	65	Ambassadorial Residence
45	bldpopp.pft	bfc	66	Embassy
46	bldpopp.pft	bfc	67	Consulate
47	bldpopp.pft	bfc	69	Guard Shack/Guard Room
48	bldpopp.pft	bfc	70	Kennel
49	bldpopp.pft	bfc	77	Harbor Masters Office
50	bldpopp.pft	bfc	78	Marine Police
51	bldpopp.pft	bfc	79	Rescue
52	bldpopp.pft	bfc	80	Port Control
53	bldpopp.pft	bfc	82	Lighthouse
54	bldpopp.pft	bfc	87	Auditorium
55	bldpopp.pft	bfc	88	Opera House
56	bldpopp.pft	bfc	91	Mobile Home
57	bldpopp.pft	bfc	92	Weather Station
58	bldpopp.pft	bfc	93	Dependents Housing/Bivouac Area
59	bldpopp.pft	bfc	95	Hotel
60	bldpopp.pft	bfc	96	Diplomatic Building
61	bldpopp.pft	bfc	97	Trading Post
62	bldpopp.pft	bfc	98	Shed
63	bldpopp.pft	bfc	99	Battery
64	bldpopp.pft	bfc	100	Medical Center
65	bldpopp.pft	bfc	101	Municipal Hall
66	bldpopp.pft	bfc	103	Outbuilding
67	bldpopp.pft	bfc	105	Reformatory
68	bldpopp.pft	bfc	106	Sanitorium
69	bldpopp.pft	bfc	107	Satellite Tracking Station
70	bldpopp.pft	bfc	108	Seminary
71	bldpopp.pft	bfc	109	Senior Citizen's Home
72	bldpopp.pft	bfc	111	Sportsplex
73	bldpopp.pft	bfc	114	Non-Christian Place of Worship
74	bldpopp.pft	bfc	115	Hostel
75	bldpopp.pft	bfc	117	Motel
76	bldpopp.pft	bfc	118	Community Center
77	bldpopp.pft	bfc	119	City Hall
78	bldpopp.pft	bfc	121	Armory
79	bldpopp.pft	bfc	122	Shopping Center
80	bldpopp.pft	bfc	123	Correctional Institute
81	bldpopp.pft	bfc	126	Astronomical Station
82	bldpopp.pft	bfc	127	Theater
83	bldpopp.pft	bfc	128	Library

TABLE E-111. Population Integer Value Description Table (Continued).

84	bldpopp.pft	bfc	723	Combined Fire and Police Station
85	bldpopp.pft	bfc	999	Other
86	bldpopp.pft	ebt	0	Unknown
87	bldpopp.pft	ebt	1	Academy
88	bldpopp.pft	ebt	2	College
89	bldpopp.pft	ebt	3	Educational Center
90	bldpopp.pft	ebt	4	Lyceum
91	bldpopp.pft	ebt	5	University
92	bldpopp.pft	ebt	6	Seminary
93	bldpopp.pft	ebt	8	Not Applicable
94	bldpopp.pft	ebt	999	Other
95	bldpopp.pft	exs	0	Unknown
96	bldpopp.pft	exs	5	Under Construction
97	bldpopp.pft	exs	6	Abandoned/Disused
98	bldpopp.pft	exs	7	Destroyed
99	bldpopp.pft	exs	28	Operational
100	bldpopp.pft	hgt	0	Unknown
101	bldpopp.pft	hwt	0	Unknown
102	bldpopp.pft	hwt	2	Cathedral
103	bldpopp.pft	hwt	3	Chapel
104	bldpopp.pft	hwt	4	Church
105	bldpopp.pft	hwt	5	Marabout
106	bldpopp.pft	hwt	6	Minaret
107	bldpopp.pft	hwt	7	Monastery, Convent
108	bldpopp.pft	hwt	9	Mosque
109	bldpopp.pft	hwt	11	Pagoda
110	bldpopp.pft	hwt	14	Shrine
111	bldpopp.pft	hwt	15	Tabernacle
112	bldpopp.pft	hwt	16	Temple
113	bldpopp.pft	hwt	20	Synagogue
114	bldpopp.pft	hwt	21	Stupa
115	bldpopp.pft	hwt	22	Not Applicable
116	bldpopp.pft	hwt	23	Any
117	bldpopp.pft	len	0	Unknown
118	bldpopp.pft	ssr	0	Unknown
119	bldpopp.pft	ssr	6	Conical/Peaked/NUN
120	bldpopp.pft	ssr	38	Curved/Round (Quonset)
121	bldpopp.pft	ssr	40	Dome
122	bldpopp.pft	ssr	41	Flat
123	bldpopp.pft	ssr	42	Gable (Pitched)
124	bldpopp.pft	ssr	47	Sawtooth
125	bldpopp.pft	ssr	50	With Monitor
126	bldpopp.pft	ssr	51	With Steeple
127	bldpopp.pft	ssr	55	Flat with Monitor
128	bldpopp.pft	ssr	64	Gable with Monitor
129	bldpopp.pft	ssr	77	With Cupola
130	bldpopp.pft	ssr	78	With Turret
131	bldpopp.pft	ssr	79	With Tower
132	bldpopp.pft	ssr	80	With Minaret

TABLE E-111. Population Integer Value Description Table (Continued).

133	bldpopp.pft	ssr	999	Other
134	bldpopp.pft	use	0	Unknown
135	bldpopp.pft	use	4	National
136	bldpopp.pft	use	5	State
137	bldpopp.pft	use	6	Private
138	bldpopp.pft	use	8	Military
139	bldpopp.pft	use	22	Joint Military/Civilian
140	bldpopp.pft	use	23	International
141	bldpopp.pft	use	43	Institutional
142	bldpopp.pft	use	49	Civilian/Public
143	bldpopp.pft	use	120	Recreational
144	bldpopp.pft	use	130	Transportation
145	bldpopp.pft	use	991	Not Applicable
146	bldpopp.pft	use	999	Other
147	bldpopp.pft	wid	0	Unknown
148	landmrkp.pft	ara	0	Unknown
149	landmrkp.pft	coc	0	Unknown
150	landmrkp.pft	coc	1	Conspicuous from Sea
151	landmrkp.pft	coc	6	Inconspicuous
152	landmrkp.pft	exs	0	Unknown
153	landmrkp.pft	exs	30	Not Isolated
154	landmrkp.pft	exs	31	Isolated
155	landmrkp.pft	hgt	0	Unknown
156	landmrkp.pft	len	0	Unknown
157	landmrkp.pft	rel	0	Unknown
158	landmrkp.pft	rel	1	Buddhist
159	landmrkp.pft	rel	2	Moslem
160	landmrkp.pft	rel	3	Roman Catholic
161	landmrkp.pft	rel	4	Christian (undefined)
162	landmrkp.pft	rel	5	Judaism
163	landmrkp.pft	rel	6	Greek Orthodox
164	landmrkp.pft	rel	7	Protestant
165	landmrkp.pft	rel	8	Shinto
166	landmrkp.pft	rel	999	Other
167	landmrkp.pft	ssc	0	Unknown
168	landmrkp.pft	ssc	12	Pyramid
169	landmrkp.pft	ssc	17	Sphere (Hemispherical)
170	landmrkp.pft	ssc	21	Artificial Mountain
171	landmrkp.pft	ssc	23	Ferris Wheel
172	landmrkp.pft	ssc	25	Roller Coaster
173	landmrkp.pft	ssc	77	Arch
174	landmrkp.pft	ssc	109	Obelisk
175	landmrkp.pft	ssc	999	Other
176	landmrkp.pft	wid	0	Unknown
177	milp.pft	exs	0	Unknown
178	milp.pft	exs	5	Under Construction
179	milp.pft	exs	6	Abandoned/Disused
180	milp.pft	exs	11	Temporary
181	milp.pft	exs	28	Operational

TABLE E-111. Population Integer Value Description Table (Continued).

182	milp.pft	frt	0	Unknown
183	milp.pft	frt	1	Rifle/Small Arms
184	milp.pft	frt	2	Tank
185	milp.pft	frt	3	Artillery
186	milp.pft	frt	4	Grenade
187	milp.pft	frt	5	Demolition Area
188	milp.pft	frt	6	Impact Area
189	milp.pft	frt	999	Other
190	milp.pft	loc	0	Unknown
191	milp.pft	loc	4	Below Surface/Submerged/Underground
192	milp.pft	loc	8	On Ground Surface
193	milp.pft	loc	25	Suspended/Elevated Above Ground or Water Surface
194	milp.pft	mcc	0	Unknown
195	milp.pft	mcc	8	Boulders
196	milp.pft	mcc	9	Brick
197	milp.pft	mcc	21	Concrete
198	milp.pft	mcc	30	Earthen
199	milp.pft	mcc	62	Masonry (Brick/Stone)
200	milp.pft	mcc	83	Reinforced Concrete
201	milp.pft	mcc	117	Wood
202	milp.pft	mst	0	Unknown
203	milp.pft	mst	1	ABM
204	milp.pft	mst	2	ICBM
205	milp.pft	mst	3	IRBM
206	milp.pft	mst	4	SA1
207	milp.pft	mst	5	SA2
208	milp.pft	mst	6	SA3
209	milp.pft	mst	7	SA4
210	milp.pft	mst	8	SA5
211	milp.pft	mst	9	SA6
212	milp.pft	mst	10	SA7
213	milp.pft	mst	11	SA8
214	milp.pft	mst	12	SA9
215	milp.pft	mst	13	MRBM
216	milp.pft	mst	14	SSM
217	milp.pft	mst	15	SAM
218	milp.pft	mst	999	Other
219	milp.pft	ysu	0	Unknown
220	milp.pft	ysu	1	Airforce
221	milp.pft	ysu	2	Army
222	milp.pft	ysu	3	Coast Guard
223	milp.pft	ysu	4	Marines
224	milp.pft	ysu	5	Navy
225	milp.pft	ysu	6	Other
226	milp.pft	ysu	7	Joint
227	mispopp.pft	ara	0	Unknown
228	mispopp.pft	ppt	0	Unknown

TABLE E-111. Population Integer Value Description Table (Continued).

229	mispopp.pft	ppt	1	Native Settlement
230	mispopp.pft	ppt	2	Shanty town
231	mispopp.pft	ppt	3	Tent Dwellings
232	ruinsp.pft	ara	0	Unknown
233	ruinsp.pft	hgt	0	Unknown
234	ruinsp.pft	len	0	Unknown
235	ruinsp.pft	loc	0	Unknown
236	ruinsp.pft	loc	8	On Ground Surface
237	ruinsp.pft	wid	0	Unknown
238	bldpopl.lft	bfc	0	Unknown
239	bldpopl.lft	bfc	2	Government Building
240	bldpopl.lft	bfc	3	Capitol Building
241	bldpopl.lft	bfc	4	Castle
242	bldpopl.lft	bfc	5	Government Administration Building
243	bldpopl.lft	bfc	6	Hospital
244	bldpopl.lft	bfc	7	House of Worship
245	bldpopl.lft	bfc	8	Military Administration/ Operations Building
246	bldpopl.lft	bfc	9	Museum
247	bldpopl.lft	bfc	10	Observatory
248	bldpopl.lft	bfc	11	Palace
249	bldpopl.lft	bfc	12	Police Station
250	bldpopl.lft	bfc	13	Prison
251	bldpopl.lft	bfc	14	Ranger Station
252	bldpopl.lft	bfc	15	School
253	bldpopl.lft	bfc	16	House
254	bldpopl.lft	bfc	17	Multi Unit Dwelling
255	bldpopl.lft	bfc	18	Cemetery Building
256	bldpopl.lft	bfc	19	Farm Building
257	bldpopl.lft	bfc	20	Greenhouse
258	bldpopl.lft	bfc	28	Administration Building
259	bldpopl.lft	bfc	31	Customs House
260	bldpopl.lft	bfc	33	Health Office
261	bldpopl.lft	bfc	34	Firing Range
262	bldpopl.lft	bfc	35	Post Office
263	bldpopl.lft	bfc	36	Barracks/Dormitory
264	bldpopl.lft	bfc	37	Fire Station
265	bldpopl.lft	bfc	38	Jail
266	bldpopl.lft	bfc	39	Guardhouse
267	bldpopl.lft	bfc	50	Church
268	bldpopl.lft	bfc	51	Market
269	bldpopl.lft	bfc	52	Town Hall
270	bldpopl.lft	bfc	53	Bank
271	bldpopl.lft	bfc	55	Yacht Club/Sailing Club
272	bldpopl.lft	bfc	56	Public Inn
273	bldpopl.lft	bfc	57	Restaurant
274	bldpopl.lft	bfc	58	Observation
275	bldpopl.lft	bfc	60	University/College

TABLE E-111. Population Integer Value Description Table (Continued).

276	bldpopl.lft	bfc	61	Courthouse
277	bldpopl.lft	bfc	62	Legation
278	bldpopl.lft	bfc	63	Mission
279	bldpopl.lft	bfc	64	Chancery
280	bldpopl.lft	bfc	65	Ambassadorial Residence
281	bldpopl.lft	bfc	66	Embassy
282	bldpopl.lft	bfc	67	Consulate
283	bldpopl.lft	bfc	69	Guard Shack/Guard Room
284	bldpopl.lft	bfc	70	Kennel
285	bldpopl.lft	bfc	77	Harbor Masters Office
286	bldpopl.lft	bfc	78	Marine Police
287	bldpopl.lft	bfc	79	Rescue
288	bldpopl.lft	bfc	80	Port Control
289	bldpopl.lft	bfc	82	Lighthouse
290	bldpopl.lft	bfc	87	Auditorium
291	bldpopl.lft	bfc	88	Opera House
292	bldpopl.lft	bfc	91	Mobile Home
293	bldpopl.lft	bfc	92	Weather Station
294	bldpopl.lft	bfc	93	Dependents Housing/Bivouac Area
295	bldpopl.lft	bfc	95	Hotel
296	bldpopl.lft	bfc	96	Diplomatic Building
297	bldpopl.lft	bfc	97	Trading Post
298	bldpopl.lft	bfc	98	Shed
299	bldpopl.lft	bfc	99	Battery
300	bldpopl.lft	bfc	100	Medical Center
301	bldpopl.lft	bfc	101	Municipal Hall
302	bldpopl.lft	bfc	103	Outbuilding
303	bldpopl.lft	bfc	105	Reformatory
304	bldpopl.lft	bfc	106	Sanitorium
305	bldpopl.lft	bfc	107	Satellite Tracking Station
306	bldpopl.lft	bfc	108	Seminary
307	bldpopl.lft	bfc	109	Senior Citizen's Home
308	bldpopl.lft	bfc	111	Sportsplex
309	bldpopl.lft	bfc	114	Non-Christian Place of Worship
310	bldpopl.lft	bfc	115	Hostel
311	bldpopl.lft	bfc	117	Motel
312	bldpopl.lft	bfc	118	Community Center
313	bldpopl.lft	bfc	119	City Hall
314	bldpopl.lft	bfc	121	Armory
315	bldpopl.lft	bfc	122	Shopping Center
316	bldpopl.lft	bfc	123	Correctional Institute
317	bldpopl.lft	bfc	126	Astronomical Station
318	bldpopl.lft	bfc	127	Theater
319	bldpopl.lft	bfc	128	Library
320	bldpopl.lft	bfc	723	Combined Fire and Police Station
321	bldpopl.lft	bfc	999	Other
322	bldpopl.lft	ebt	0	Unknown
323	bldpopl.lft	ebt	1	Academy
324	bldpopl.lft	ebt	2	College

TABLE E-111. Population Integer Value Description Table (Continued).

325	bldpopl.lft	ebt	3	Educational Center
326	bldpopl.lft	ebt	4	Lyceum
327	bldpopl.lft	ebt	5	University
328	bldpopl.lft	ebt	6	Seminary
329	bldpopl.lft	ebt	8	Not Applicable
330	bldpopl.lft	ebt	999	Other
331	bldpopl.lft	exs	0	Unknown
332	bldpopl.lft	exs	5	Under Construction
333	bldpopl.lft	exs	6	Abandoned/Disused
334	bldpopl.lft	exs	7	Destroyed
335	bldpopl.lft	exs	28	Operational
336	bldpopl.lft	hgt	0	Unknown
337	bldpopl.pft	hwt	0	Unknown
338	bldpopl.pft	hwt	2	Cathedral
339	bldpopl.pft	hwt	3	Chapel
340	bldpopl.pft	hwt	4	Church
341	bldpopl.pft	hwt	5	Marabout
342	bldpopl.pft	hwt	6	Minaret
343	bldpopl.pft	hwt	7	Monastery, Convent
344	bldpopl.pft	hwt	9	Mosque
345	bldpopl.pft	hwt	11	Pagoda
346	bldpopl.pft	hwt	14	Shrine
347	bldpopl.pft	hwt	15	Tabernacle
348	bldpopl.pft	hwt	16	Temple
349	bldpopl.pft	hwt	20	Synagogue
350	bldpopl.pft	hwt	21	Stupa
351	bldpopl.pft	hwt	22	Not Applicable
352	bldpopl.pft	hwt	23	Any
353	bldpopl.lft	ssr	0	Unknown
354	bldpopl.lft	ssr	6	Conical/Peaked/NUN
355	bldpopl.lft	ssr	38	Curved/Round (Quonset)
356	bldpopl.lft	ssr	40	Dome
357	bldpopl.lft	ssr	41	Flat
358	bldpopl.lft	ssr	42	Gable (Pitched)
359	bldpopl.lft	ssr	47	Sawtooth
360	bldpopl.lft	ssr	50	With Monitor
361	bldpopl.lft	ssr	51	With Steeple
362	bldpopl.lft	ssr	55	Flat with Monitor
363	bldpopl.lft	ssr	64	Gable with Monitor
364	bldpopl.lft	ssr	77	With Cupola
365	bldpopl.lft	ssr	78	With Turret
366	bldpopl.lft	ssr	79	With Tower
367	bldpopl.lft	ssr	80	With Minaret
368	bldpopl.lft	ssr	999	Other
369	bldpopl.lft	use	0	Unknown
370	bldpopl.lft	use	4	National
371	bldpopl.lft	use	5	State
372	bldpopl.lft	use	6	Private
373	bldpopl.lft	use	8	Military

TABLE E-111. Population Integer Value Description Table (Continued).

374	bldpopl.lft	use	22	Joint Military/Civilian
375	bldpopl.lft	use	23	International
376	bldpopl.lft	use	43	Institutional
377	bldpopl.lft	use	49	Civilian/Public
378	bldpopl.lft	use	120	Recreational
379	bldpopl.lft	use	130	Transportation
380	bldpopl.lft	use	991	Not Applicable
381	bldpopl.lft	use	999	Other
382	bldpopl.lft	wid	0	Unknown
383	landmrkl.lft	hgt	0	Unknown
384	landmrkl.lft	wid	0	Unknown
385	mill.lft	exs	0	Unknown
386	mill.lft	exs	5	Under Construction
387	mill.lft	exs	6	Abandoned/Disused
388	mill.lft	exs	11	Temporary
389	mill.lft	exs	28	Operational
390	mill.lft	frt	0	Unknown
391	mill.lft	frt	1	Rifle/Small Arms
392	mill.lft	frt	2	Tank
393	mill.lft	frt	3	Artillery
394	mill.lft	frt	4	Grenade
395	mill.lft	frt	5	Demolition Area
396	mill.lft	frt	6	Impact Area
397	mill.lft	frt	999	Other
398	mill.lft	loc	0	Unknown
399	mill.lft	loc	4	Below Surface/Submerged/Underground
400	mill.lft	loc	8	On Ground Surface
401	mill.lft	loc	25	Suspended/Elevated Above Ground or Water Surface
402	mill.lft	mcc	0	Unknown
403	mill.lft	mcc	8	Boulders
404	mill.lft	mcc	9	Brick
405	mill.lft	mcc	21	Concrete
406	mill.lft	mcc	30	Earthen
407	mill.lft	mcc	62	Masonry (Brick/Stone)
408	mill.lft	mcc	83	Reinforced Concrete
409	mill.lft	mcc	117	Wood
410	mill.lft	mst	0	Unknown
411	mill.lft	mst	1	ABM
412	mill.lft	mst	2	ICBM
413	mill.lft	mst	3	IRBM
414	mill.lft	mst	4	SA1
415	mill.lft	mst	5	SA2
416	mill.lft	mst	6	SA3
417	mill.lft	mst	7	SA4
418	mill.lft	mst	8	SA5
419	mill.lft	mst	9	SA6
420	mill.lft	mst	10	SA7

TABLE E-111. Population Integer Value Description Table (Continued).

421	mill.lft	mst	11	SA8
422	mill.lft	mst	12	SA9
423	mill.lft	mst	13	MRBM
424	mill.lft	mst	14	SSM
425	mill.lft	mst	15	SAM
426	mill.lft	mst	999	Other
427	mill.lft	ysu	0	Unknown
428	mill.lft	ysu	1	Airforce
429	mill.lft	ysu	2	Army
430	mill.lft	ysu	3	Coast Guard
431	mill.lft	ysu	4	Marines
432	mill.lft	ysu	5	Navy
433	mill.lft	ysu	6	Other
434	mill.lft	ysu	7	Joint
435	bldpopa.aft	ara	0	Unknown
436	bldpopa.aft	bfc	0	Unknown
437	bldpopa.aft	bfc	2	Government Building
438	bldpopa.aft	bfc	3	Capitol Building
439	bldpopa.aft	bfc	4	Castle
440	bldpopa.aft	bfc	5	Government Administration Building
441	bldpopa.aft	bfc	6	Hospital
442	bldpopa.aft	bfc	7	House of Worship
443	bldpopa.aft	bfc	8	Military Administration/ Operations Building
444	bldpopa.aft	bfc	9	Museum
445	bldpopa.aft	bfc	10	Observatory
446	bldpopa.aft	bfc	11	Palace
447	bldpopa.aft	bfc	12	Police Station
448	bldpopa.aft	bfc	13	Prison
449	bldpopa.aft	bfc	14	Ranger Station
450	bldpopa.aft	bfc	15	School
451	bldpopa.aft	bfc	16	House
452	bldpopa.aft	bfc	17	Multi Unit Dwelling
453	bldpopa.aft	bfc	18	Cemetery Building
454	bldpopa.aft	bfc	19	Farm Building
455	bldpopa.aft	bfc	20	Greenhouse
456	bldpopa.aft	bfc	28	Administration Building
457	bldpopa.aft	bfc	31	Customs House
458	bldpopa.aft	bfc	33	Health Office
459	bldpopa.aft	brc	34	Firing Range
460	bldpopa.aft	bfc	35	Post Office
461	bldpopa.aft	bfc	36	Barracks/Dormitory
462	bldpopa.aft	bfc	37	Fire Station
463	bldpopa.aft	bfc	38	Jail
464	bldpopa.aft	bfc	39	Guardhouse
465	bldpopa.aft	bfc	50	Church
466	bldpopa.aft	bfc	51	Market
467	bldpopa.aft	bfc	52	Town Hall

TABLE E-111. Population Integer Value Description Table (Continued).

468	bldpopa.aft	bfc	53	Bank
469	bldpopa.aft	bfc	55	Yacht Club/Sailing Club
470	bldpopa.aft	bfc	56	Public Inn
471	bldpopa.aft	bfc	57	Restaurant
472	bldpopa.aft	bfc	58	Observation
473	bldpopa.aft	bfc	60	University/College
474	bldpopa.aft	bfc	61	Courthouse
475	bldpopa.aft	bfc	62	Legation
476	bldpopa.aft	bfc	63	Mission
477	bldpopa.aft	bfc	64	Chancery
478	bldpopa.aft	bfc	65	Ambassadorial Residence
479	bldpopa.aft	bfc	66	Embassy
480	bldpopa.aft	bfc	67	Consulate
481	bldpopa.aft	bfc	69	Guard Shack/Guard Room
482	bldpopa.aft	bfc	70	Kennel
483	bldpopa.aft	bfc	77	Harbor Masters Office
484	bldpopa.aft	bfc	78	Marine Police
485	bldpopa.aft	bfc	79	Rescue
486	bldpopa.aft	bfc	80	Port Control
487	bldpopa.aft	bfc	82	Lighthouse
488	bldpopa.aft	bfc	87	Auditorium
489	bldpopa.aft	bfc	88	Opera House
490	bldpopa.aft	bfc	91	Mobile Home
491	bldpopa.aft	bfc	92	Weather Station
492	bldpopa.aft	bfc	93	Dependents Housing/Bivouac Area
493	bldpopa.aft	bfc	95	Hotel
494	bldpopa.aft	bfc	96	Diplomatic Building
495	bldpopa.aft	bfc	97	Trading Post
496	bldpopa.aft	bfc	98	Shed
497	bldpopa.aft	bfc	99	Battery
498	bldpopa.aft	bfc	100	Medical Center
499	bldpopa.aft	bfc	101	Municipal Hall
500	bldpopa.aft	bfc	103	Outbuilding
501	bldpopa.aft	bfc	105	Reformatory
502	bldpopa.aft	bfc	106	Sanitorium
503	bldpopa.aft	bfc	107	Satellite Tracking Station
504	bldpopa.aft	bfc	108	Seminary
505	bldpopa.aft	bfc	109	Senior Citizen's Home
506	bldpopa.aft	bfc	111	Sportsplex
507	bldpopa.aft	bfc	114	Non-Christian Place of Worship
508	bldpopa.aft	bfc	115	Hostel
509	bldpopa.aft	bfc	117	Motel
510	bldpopa.aft	bfc	118	Community Center
511	bldpopa.aft	bfc	119	City Hall
512	bldpopa.aft	bfc	121	Armory
513	bldpopa.aft	bfc	122	Shopping Center
514	bldpopa.aft	bfc	123	Correctional Institute
515	bldpopa.aft	bfc	126	Astronomical Station
516	bldpopa.aft	bfc	127	Theater

TABLE E-111. Population Integer Value Description Table (Continued).

517	Bldpopa.aft	bfc	128	Library
518	bldpopa.aft	bfc	723	Combined Fire and Police Station
519	bldpopa.aft	bfc	999	Other
520	bldpopa.aft	ebt	0	Unknown
521	bldpopa.aft	ebt	1	Academy
522	bldpopa.aft	ebt	2	College
523	bldpopa.aft	ebt	3	Educational Center
524	bldpopa.aft	ebt	4	Lyceum
525	bldpopa.aft	ebt	5	University
526	bldpopa.aft	ebt	6	Seminary
527	bldpopa.aft	ebt	8	Not Applicable
528	bldpopa.aft	ebt	999	Other
529	bldpopa.aft	exs	0	Unknown
530	bldpopa.aft	exs	5	Under Construction
531	bldpopa.aft	exs	6	Abandoned/Disused
532	bldpopa.aft	exs	7	Destroyed
533	bldpopa.aft	exs	28	Operational
534	bldpopa.aft	hgt	0	Unknown
535	bldpopa.aft	hwt	0	Unknown
536	bldpopa.aft	hwt	2	Cathedral
537	bldpopa.aft	hwt	3	Chapel
538	bldpopa.aft	hwt	4	Church
539	bldpopa.aft	hwt	5	Marabout
540	bldpopa.aft	hwt	6	Minaret
541	bldpopa.aft	hwt	7	Monastery, Convent
542	bldpopa.aft	hwt	9	Mosque
543	bldpopa.aft	hwt	11	Pagoda
544	bldpopa.aft	hwt	14	Shrine
545	bldpopa.aft	hwt	15	Tabernacle
546	bldpopa.aft	hwt	16	Temple
547	bldpopa.aft	hwt	20	Synagogue
548	bldpopa.aft	hwt	21	Stupa
549	bldpopa.aft	hwt	22	Not Applicable
550	bldpopa.aft	hwt	23	Any
551	bldpopa.aft	ssr	0	Unknown
552	bldpopa.aft	ssr	6	Conical/Peaked/NUN
553	bldpopa.aft	ssr	38	Curved/Round (Quonset)
554	bldpopa.aft	ssr	40	Dome
555	bldpopa.aft	ssr	41	Flat
556	bldpopa.aft	ssr	42	Gable (Pitched)
557	bldpopa.aft	ssr	47	Sawtooth
558	bldpopa.aft	ssr	50	With Monitor
559	bldpopa.aft	ssr	51	With Steeple
560	bldpopa.aft	ssr	55	Flat with Monitor
561	bldpopa.aft	ssr	64	Gable with Monitor
562	bldpopa.aft	ssr	77	With Cupola
563	bldpopa.aft	ssr	78	With Turret
564	bldpopa.aft	ssr	79	With Tower

TABLE E-111. Population Integer Value Description Table (Continued).

565	bldpopa.aft	ssr	80	With Minaret
566	bldpopa.aft	ssr	999	Other
567	bldpopa.aft	use	0	Unknown
568	bldpopa.aft	use	4	National
569	bldpopa.aft	use	5	State
570	bldpopa.aft	use	6	Private
571	bldpopa.aft	use	8	Military
572	bldpopa.aft	use	22	Joint Military/Civilian
573	bldpopa.aft	use	23	International
574	bldpopa.aft	use	43	Institutional
575	bldpopa.aft	use	49	Civilian/Public
576	bldpopa.aft	use	120	Recreational
577	bldpopa.aft	use	130	Transportation
578	bldpopa.aft	use	991	Not Applicable
579	bldpopa.aft	use	999	Other
580	builtupa.aft	ara	0	Unknown
581	builtupa.aft	bac	0	Unknown
582	builtupa.aft	bac	1	Sparse to Moderate
583	builtupa.aft	bac	2	Dense
584	builtupa.aft	dmr	0	Unknown
585	builtupa.aft	exs	0	Unknown
586	builtupa.aft	exs	1	Definite
587	builtupa.aft	exs	7	Destroyed
588	builtupa.aft	exs	62	Partially Destroyed
589	builtupa.aft	exs	999	Other
590	builtupa.aft	ppl	0	Unknown
591	cmpxpopa.aft	ara	0	Unknown
592	cmpxpopa.aft	bfc	0	Unknown
593	cmpxpopa.aft	bfc	2	Government Building
594	cmpxpopa.aft	bfc	3	Capitol Building
595	cmpxpopa.aft	bfc	4	Castle
596	cmpxpopa.aft	bfc	5	Government Administration Building
597	cmpxpopa.aft	bfc	6	Hospital
598	cmpxpopa.aft	bfc	7	House of Worship
599	cmpxpopa.aft	bfc	8	Military Administration/Operations Building
600	cmpxpopa.aft	bfc	9	Museum
601	cmpxpopa.aft	bfc	10	Observatory
602	cmpxpopa.aft	bfc	11	Palace
603	cmpxpopa.aft	bfc	12	Police Station
604	cmpxpopa.aft	bfc	13	Prison
605	cmpxpopa.aft	bfc	14	Ranger Station
606	cmpxpopa.aft	bfc	15	School
607	cmpxpopa.aft	bfc	16	House
608	cmpxpopa.aft	bfc	17	Multi Unit Dwelling
609	cmpxpopa.aft	bfc	18	Cemetery Building
610	cmpxpopa.aft	bfc	19	Farm Building

TABLE E-111. Population Integer Value Description Table (Continued).

611	cmpxpopa.aft	bfc	20	Greenhouse
612	cmpxpopa.aft	bfc	28	Administration Building
613	cmpxpopa.aft	bfc	31	Customs House
614	cmpxpopa.aft	bfc	33	Health Office
615	cmpxpopa.aft	bfc	34	Firing Range
616	cmpxpopa.aft	bfc	35	Post Office
617	cmpxpopa.aft	bfc	36	Barracks/Dormitory
618	cmpxpopa.aft	bfc	37	Fire Station
619	cmpxpopa.aft	bfc	38	Jail
620	cmpxpopa.aft	bfc	39	Guardhouse
621	cmpxpopa.aft	bfc	50	Church
622	cmpxpopa.aft	bfc	51	Market
623	cmpxpopa.aft	bfc	52	Town Hall
624	cmpxpopa.aft	bfc	53	Bank
625	cmpxpopa.aft	bfc	55	Yacht Club/Sailing Club
626	cmpxpopa.aft	bfc	56	Public Inn
627	cmpxpopa.aft	bfc	57	Restaurant
628	cmpxpopa.aft	bfc	58	Observation
629	cmpxpopa.aft	bfc	60	University/College
630	cmpxpopa.aft	bfc	61	Courthouse
631	cmpxpopa.aft	bfc	62	Legation
632	cmpxpopa.aft	bfc	63	Mission
633	cmpxpopa.aft	bfc	64	Chancery
634	cmpxpopa.aft	bfc	65	Ambassadorial Residence
635	cmpxpopa.aft	bfc	66	Embassy
636	cmpxpopa.aft	bfc	67	Consulate
637	cmpxpopa.aft	bfc	69	Guard Shack/Guard Room
638	cmpxpopa.aft	bfc	70	Kennel
639	cmpxpopa.aft	bfc	77	Harbor Masters Office
640	cmpxpopa.aft	bfc	78	Marine Police
641	cmpxpopa.aft	bfc	79	Rescue
642	cmpxpopa.aft	bfc	80	Port Control
643	cmpxpopa.aft	bfc	82	Lighthouse
644	cmpxpopa.aft	bfc	87	Auditorium
645	cmpxpopa.aft	bfc	88	Opera House
646	cmpxpopa.aft	bfc	91	Mobile Home
647	cmpxpopa.aft	bfc	92	Weather Station
648	cmpxpopa.aft	bfc	93	Dependents Housing/Bivouac Area
649	cmpxpopa.aft	bfc	95	Hotel
650	cmpxpopa.aft	bfc	96	Diplomatic Building
651	cmpxpopa.aft	bfc	97	Trading Post
652	cmpxpopa.aft	bfc	98	Shed
653	cmpxpopa.aft	bfc	99	Battery
654	cmpxpopa.aft	bfc	100	Medical Center
655	cmpxpopa.aft	bfc	101	Municipal Hall
656	cmpxpopa.aft	bfc	103	Outbuilding
657	cmpxpopa.aft	bfc	105	Reformatory
658	cmpxpopa.aft	bfc	106	Sanitorium
659	cmpxpopa.aft	bfc	107	Satellite Tracking Station

TABLE E-111. Population Integer Value Description Table (Continued).

660	cmpxpopa.aft	bfc	108	Seminary
661	cmpxpopa.aft	bfc	109	Senior Citizen's Home
662	cmpxpopa.aft	bfc	111	Sportsplex
663	cmpxpopa.aft	bfc	114	Non-Christian Place of Worship
664	cmpxpopa.aft	bfc	115	Hostel
665	cmpxpopa.aft	bfc	117	Motel
666	cmpxpopa.aft	bfc	118	Community Center
667	cmpxpopa.aft	bfc	119	City Hall
668	cmpxpopa.aft	bfc	121	Armory
669	cmpxpopa.aft	bfc	122	Shopping Center
670	cmpxpopa.aft	bfc	123	Correctional Institute
671	cmpxpopa.aft	bfc	126	Astronomical Station
672	cmpxpopa.aft	bfc	127	Theater
673	cmpxpopa.aft	bfc	128	Library
674	cmpxpopa.aft	bfc	723	Combined Fire and Police Station
675	cmpxpopa.aft	bfc	999	Other
676	cmpxpopa.aft	ebt	0	Unknown
677	cmpxpopa.aft	ebt	1	Academy
678	cmpxpopa.aft	ebt	2	College
679	cmpxpopa.aft	ebt	3	Educational Center
680	cmpxpopa.aft	ebt	4	Lyceum
681	cmpxpopa.aft	ebt	5	University
682	cmpxpopa.aft	ebt	6	Seminary
683	cmpxpopa.aft	ebt	8	Not Applicable
684	cmpxpopa.aft	ebt	999	Other
685	cmpxpopa.aft	exs	0	Unknown
686	cmpxpopa.aft	exs	5	Under Construction
687	cmpxpopa.aft	exs	6	Abandoned/Disused
688	cmpxpopa.aft	exs	7	Destroyed
689	cmpxpopa.aft	exs	28	Operational
690	cmpxpopa.aft	hgt	0	Unknown
691	cmpxpopa.aft	hwt	0	Unknown
692	cmpxpopa.aft	hwt	2	Cathedral
693	cmpxpopa.aft	hwt	3	Chapel
694	cmpxpopa.aft	hwt	4	Church
695	cmpxpopa.aft	hwt	5	Marabout
696	cmpxpopa.aft	hwt	6	Minaret
697	cmpxpopa.aft	hwt	7	Monastery, Convent
698	cmpxpopa.aft	hwt	9	Mosque
699	cmpxpopa.aft	hwt	11	Pagoda
700	cmpxpopa.aft	hwt	14	Shrine
701	cmpxpopa.aft	hwt	15	Tabernacle
702	cmpxpopa.aft	hwt	16	Temple
703	cmpxpopa.aft	hwt	20	Synagogue
704	cmpxpopa.aft	hwt	21	Stupa
705	cmpxpopa.aft	hwt	22	Not Applicable
706	cmpxpopa.aft	hwt	23	Any
707	cmpxpopa.aft	loc	0	Unknown

TABLE E-111. Population Integer Value Description Table (Continued).

708	cmpxpopa.aft	loc	4	Below Surface/Submerged/Underground
709	cmpxpopa.aft	loc	8	On Ground Surface
710	cmpxpopa.aft	loc	25	Suspended/Elevated Above Ground or Water Surface
711	cmpxpopa.aft	use	0	Unknown
712	cmpxpopa.aft	use	4	National
713	cmpxpopa.aft	use	5	State
714	cmpxpopa.aft	use	6	Private
715	cmpxpopa.aft	use	8	Military
716	cmpxpopa.aft	use	22	Joint Military/Civilian
717	cmpxpopa.aft	use	23	International
718	cmpxpopa.aft	use	43	Institutional
719	cmpxpopa.aft	use	49	Civilian/Public
720	cmpxpopa.aft	use	57	Marine
721	cmpxpopa.aft	use	120	Recreational
722	cmpxpopa.aft	use	130	Transportation
723	cmpxpopa.aft	use	991	Not Applicable
724	cmpxpopa.aft	use	999	Other
725	landmrka.aft	ara	0	Unknown
726	landmrka.aft	hgt	0	Unknown
727	landmrka.aft	rel	0	Unknown
728	landmrka.aft	rel	1	Buddhist
729	landmrka.aft	rel	2	Moslem
730	landmrka.aft	rel	3	Roman Catholic
731	landmrka.aft	rel	4	Christian (undefined)
732	landmrka.aft	rel	5	Judaism
733	landmrka.aft	rel	6	Greek Orthodox
734	landmrka.aft	rel	7	Protestant
735	landmrka.aft	rel	8	Shinto
736	landmrka.aft	rel	999	Other
737	mila.aft	exs	0	Unknown
738	mila.aft	exs	5	Under Construction
739	mila.aft	exs	6	Abandoned/Disused
740	mila.aft	exs	11	Temporary
741	mila.aft	exs	28	Operational
742	mila.aft	frt	0	Unknown
743	mila.aft	frt	1	Rifle/Small Arms
744	mila.aft	frt	2	Tank
745	mila.aft	frt	3	Artillery
746	mila.aft	frt	4	Grenade
747	mila.aft	frt	5	Demolition Area
748	mila.aft	frt	6	Impact Area
749	mila.aft	frt	999	Other
750	mila.aft	loc	0	Unknown
751	mila.aft	loc	4	Below Surface/Submerged/Underground
752	mila.aft	loc	8	On Ground Surface

TABLE E-111. Population Integer Value Description Table (Continued).

753	mila.aft	loc	25	Suspended/Elevated Above Ground or Water Surface
754	mila.aft	mcc	0	Unknown
755	mila.aft	mcc	8	Boulders
756	mila.aft	mcc	9	Brick
757	mila.aft	mcc	21	Concrete
758	mila.aft	mcc	30	Earthen
759	mila.aft	mcc	62	Masonry (Brick/Stone)
760	mila.aft	mcc	83	Reinforced Concrete
761	mila.aft	mcc	117	Wood
762	mila.aft	mst	0	Unknown
763	mila.aft	mst	1	ABM
764	mila.aft	mst	2	ICBM
765	mila.aft	mst	3	IRBM
766	mila.aft	mst	4	SA1
767	mila.aft	mst	5	SA2
768	mila.aft	mst	6	SA3
769	mila.aft	mst	7	SA4
770	mila.aft	mst	8	SA5
771	mila.aft	mst	9	SA6
772	mila.aft	mst	10	SA7
773	mila.aft	mst	11	SA8
774	mila.aft	mst	12	SA9
775	mila.aft	mst	13	MRBM
776	mila.aft	mst	14	SSM
777	mila.aft	mst	15	SAM
778	mila.aft	mst	999	Other
779	mila.aft	ysu	0	Unknown
780	mila.aft	ysu	1	Airforce
781	mila.aft	ysu	2	Army
782	mila.aft	ysu	3	Coast Guard
783	mila.aft	ysu	4	Marines
784	mila.aft	ysu	5	Navy
785	mila.aft	ysu	6	Other
786	mila.aft	ysu	7	Joint
787	mispopa.aft	cfd	999	Unknown
788	mispopa.aft	nas	0	Unknown
789	mispopa.aft	nas	1	Centralized Habitation
790	mispopa.aft	nas	2	Continuous Habitation
791	mispopa.aft	ppt	0	Unknown
792	mispopa.aft	ppt	1	Native Settlement
793	mispopa.aft	ppt	2	Shanty town
794	mispopa.aft	ppt	3	Tent Dwellings
795	mobilea.aft	ara	0	Unknown
796	ruinsa.aft	ara	0	Unknown
797	ruinsa.aft	hgt	0	Unknown
798	ruinsa.aft	loc	0	Unknown
799	ruinsa.aft	loc	8	On Ground Surface
800	symbol.rat	fon	1	Machine Default

TABLE E-111. Population Integer Value Description Table (Continued).

801	symbol.rat	sty	1	Kern
802	symbol.rat	sty	2	Proportional
803	symbol.rat	sty	3	Constant
804	symbol.rat	col	1	Black
805	symbol.rat	col	4	Blue
806	symbol.rat	col	9	Red-Brown
807	symbol.rat	col	12	Magenta

E.3.9 Transportation Coverage.

TABLE E-112. Content and format for Transportation Coverage Feature Class Schema Table.

Thematic Layer: Transportation
Coverage Name: **trans**
Table Description: Transportation Feature Class Schema Table
Table Name: **fcs**
dq Layer Number: 7

```
{Header length}L;
Transportation Feature Class Schema Table;-;
id=I,1,P,Row Identifier,-,-,-,:
feature_class=T,8,N,Name of Feature Class,-,-,-,:
table1=T,12,N,First Table,-,-,-,:
table1_key=T,16,N,Column Name in First Table,-,-,-,:
table2=T,12,N,Second Table,-,-,-,:
table2_key=T,16,N,Column Name in Second Table,-,-,-,:;
```

1	lthsp	lthsp.pft	end_id	end	id
2	lthsp	end	id	lthsp.pft	end_id
3	misaerop	misaerop.pft	end_id	end	id
4	misaerop	end	id	misaerop.pft	end_id
5	bridgec	bridgec.pft	cnd_id	cnd	id
6	bridgec	cnd	id	bridgec.pft	cnd_id
7	ferryc	ferryc.pft	cnd_id	cnd	id
8	ferryc	cnd	id	ferryc.pft	cnd_id
9	fordc	fordc.pft	cnd_id	cnd	id
10	fordc	cnd	id	fordc.pft	cnd_id
11	stationc	stationc.pft	cnd_id	cnd	id
12	stationc	cnd	id	stationc.pft	cnd_id
13	tunenexc	tunenexc.pft	cnd_id	cnd	id
14	tunenexc	cnd	id	tunenexc.pft	cnd_id
15	aerofacl	aerofacl.lft	id	aerofacl.ljt	aerofacl.lft_id
16	aerofacl	aerofacl.ljt	edg_id	edg	id
17	aerofacl	edg	id	aerofacl.ljt	edg_id
18	aerofacl	aerofacl.ljt	aerofacl.lft_id	aerofacl.lft	id
19	bridgel	bridgel.lft	id	bridgel.ljt	bridgel.lft_id
20	bridgel	bridgel.ljt	edg_id	edg	id
21	bridgel	edg	id	bridgel.ljt	edg_id
22	bridgel	bridgel.ljt	bridgel.lft_id	bridgel.lft	id
23	ferryl	ferryl.lft	id	ferryl.ljt	ferryl.lft_id
24	ferryl	ferryl.ljt	edg_id	edg	id
25	ferryl	edg	id	ferryl.ljt	edg_id
26	ferryl	ferryl.ljt	ferryl.lft_id	ferryl.lft	id
27	fordl	fordl.lft	id	fordl.ljt	fordl.lft_id
28	fordl	fordl.ljt	edg_id	edg	id
29	fordl	edg	id	fordl.ljt	edg_id
30	fordl	fordl.ljt	fordl.lft_id	fordl.lft	id
31	pierl	pierl.lft	id	pierl.ljt	pierl.lft_id
32	pierl	pierl.ljt	edg_id	edg	id

TABLE E-112. Content and format for Transportation Coverage Feature Class Schema Table (Continued).

33	pierl	Edg	id	pierl.ljt	edg_id
34	pierl	pierl.ljt	pierl.lft_id	pierl.lft	id
35	railrdl	railrdl.lft	id	railrdl.ljt	railrdl.lft_id
36	railrdl	railrdl.ljt	edg_id	edg	id
37	railrdl	edg	id	railrdl.ljt	edg_id
38	railrdl	railrdl.ljt	railrdl.lft_id	railrdl.lft	id
39	rampl	rampl.lft	id	rampl.ljt	rampl.lft_id
40	rampl	rampl.ljt	edg_id	edg	id
41	rampl	edg	id	rampl.ljt	edg_id
42	rampl	rampl.ljt	rampl.lft_id	rampl.lft	id
43	roadl	roadl.lft	id	roadl.ljt	roadl.lft_id
44	roadl	roadl.ljt	edg_id	edg	id
45	roadl	edg	id	roadl.ljt	edg_id
46	roadl	roadl.ljt	roadl.lft_id	roadl.lft	id
47	trackl	trackl.lft	id	trackl.ljt	trackl.lft_id
48	trackl	trackl.ljt	edg_id	edg	id
49	trackl	edg	id	trackl.ljt	edg_id
50	trackl	trackl.ljt	trackl.lft_id	trackl.lft	id
51	traill	traill.lft	id	traill.ljt	traill.lft_id
52	traill	traill.ljt	edg_id	edg	id
53	traill	edg	id	traill.ljt	edg_id
54	traill	traill.ljt	traill.lft_id	traill.lft	id
55	traml	traml.lft	id	traml.ljt	traml.lft_id
56	traml	traml.ljt	edg_id	edg	id
57	traml	edg	id	traml.ljt	edg_id
58	traml	traml.ljt	traml.lft_id	traml.lft	id
59	aerofaca	aerofaca.aft	id	aerofaca.ajt	aerofaca.aft_id
60	aerofaca	aerofaca.ajt	fac_id	fac	id
61	aerofaca	fac	id	aerofaca.ajt	fac_id
62	aerofaca	aerofaca.ajt	aerofaca.aft_id	aerofaca.aft	id
63	bridgea	bridgea.aft	id	bridgea.ajt	bridgea.aft_id
64	bridgea	bridgea.ajt	fac_id	fac	id
65	bridgea	fac	id	bridgea.ajt	fac_id
66	bridgea	bridgea.ajt	bridgea.aft_id	bridgea.aft	id
67	harbora	harbora.aft	id	harbora.ajt	harbora.aft_id
68	harbora	harbora.ajt	fac_id	fac	id
69	harbora	fac	id	harbora.ajt	fac_id
70	harbora	harbora.ajt	harbora.aft_id	harbora.aft	id
71	prkraila	prkraila.aft	id	prkraila.ajt	prkraila.aft_id
72	prkraila	prkraila.ajt	fac_id	fac	id
73	prkraila	fac	id	prkraila.ajt	fac_id
74	prkraila	prkraila.ajt	prkraila.aft_id	prkraila.aft	id
75	roada	roada.aft	id	roada.ajt	roada.aft_id
76	roada	roada.ajt	fac_id	fac	id
77	roada	fac	id	roada.ajt	fac_id
78	roada	roada.ajt	roada.aft_id	roada.aft	id
79	stationa	stationa.aft	id	stationa.ajt	stationa.aft_id
80	stationa	stationa.ajt	fac_id	fac	id

TABLE E-112. Content and format for Transportation Coverage Feature Class Schema Table (Continued).

81	stationa	fac	Id	stationa.ajt	fac_id
82	stationa	stationa.ajt	stationa.aft_id	stationa.aft	id
83	dqpoint	dqpoint.pft	end_id	end	id
84	dqpoint	end	id	dqpoint.pft	end_id
85	dqpoint	dqpoint.pft	dqdescr_id	dqdescr.rat	id
86	dqnode	dqnode.pft	cnd_id	cnd	id
87	dqnode	cnd	id	dqnode.pft	cnd_id
88	dqnode	dqnode.pft	dqdescr_id	dqdescr.rat	id
89	dqline	dqline.lft	id	dqline.ljt	dqline.lft_id
90	dqline	dqline.ljt	edg_id	edg	id
91	dqline	edg	id	dqline.ljt	edg_id
92	dqline	dqline.ljt	dqline.lft_id	dqline.lft	id
93	dqline	dqline.lft	dqdescr_id	dqdescr.rat	id
94	dqarea	dqarea.aft	id	dqarea.ajt	dqarea.aft_id
95	dqarea	dqarea.ajt	fac_id	fac	id
96	dqarea	fac	id	dqarea.ajt	fac_id
97	dqarea	dqarea.ajt	dqarea.aft_id	dqarea.aft	id
98	dqarea	dqarea.aft	dqdescr_id	dqdescr.rat	id
99	dqtext	dqtext.tft	txt_id	txt	id
100	dqtext	txt	id	dqtext.tft	txt_id
101	transtxt	transtxt.tft	txt_id	txt	id
102	transtxt	txt	id	transtxt.tft	txt_id
103	transtxt	transtxt.tft	symbol_id	symbol.rat	symbol_id

TABLE E-113. Lighthouse Point Feature Table

Thematic Layer: Transportation
Coverage Name: **trans**
Table Description: Lighthouse Point Feature Table
Table Name: **lthsp.pft**
dq Layer Number: 7

```
{Header length}L;
Lighthouse Point Feature Table;-;
id=I,1,P,Row Identifier,-,-,-,:
f_code= T,5,N,FACC Feature Code,char.vdt,-,-,:
atn=S,1,N,Aids to Navigation,int.vdt,-,-,:
exs=S,1,N,Existence Category,int.vdt,-,-,:
lcn=S,1,N,Light Characteristic Number,int.vdt,-,-,:
nam=T,*,N,Name,char.vdt,-,-,:
per=F,1,N,Period of Light (seconds),-,-,-,:
tile_id=S,1,N,Tile Reference ID,-,tile1_id.pti,-,:
end_id=I,1,N,Entity Node Primitive ID,-,end1_id.pti,-,:;
```

Column	Description	Value	Value Meaning	Applicable f_code for Each Attribute Value
id	Row Identifier	Sequential beginning with 1		
f_code	FACC Feature Code			
		BC050	Lighthouse	
atn	Aids to Navigation			
		0	Unknown	BC050
		1	Marked	BC050
		2	Unmarked	BC050
		3	Lit	BC050
		4	Unlit	BC050
		999	Other	BC050
exs	Existence Category			
		0	Unknown	BC050
		5	Under Construction	BC050
		6	Abandoned/Disused	BC050
lcn	Light Characteristic Number			
		0	Unknown	BC050
		>0	Actual Value	BC050
nam	Name			
		Character text string		BC050
		"UNK" (no name present for feature)		BC050
per	Period of Light (seconds)			
		0.0	Unknown	BC050
		>0.0	Actual Value	BC050

TABLE E-114. Miscellaneous Aeronautical Point Feature Table.

Thematic Layer: Transportation
Coverage Name: **trans**
Table Description: Miscellaneous Aeronautical Point Feature Table
Table Name: **misaerop.pft**
dq Layer Number: 7

```
{Header length}L;
Miscellaneous Aeronautical Point Feature Table;-;
id=I,1,P,Row Identifier,-,-,-,:
f_code=T,5,N,FACC Feature Code,char.vdt,f_code2.pti,-,:
exs=S,1,N,Existence Category,int.vdt,-,-,:
hgt=S,1,N,Height Above Surface Level (meters),int.vdt,-,-,:
lfa=S,1,N,Light Function Aeronautical,int.vdt,-,-,:
mcc=S,1,N,Material Composition Category,int.vdt,-,-,:
nam=T,*,N,Name,char.vdt,-,-,:
tuc=S,1,N,Transportation Use Category,int.vdt,-,-,:
use=S,1,N,Usage,int.vdt,-,-,:
zv2=S,1,N,Highest Z Value (meters),int.vdt,-,-,:
tile_id=S,1,N,Tile Reference ID,-,tile2_id.pti,-,:
end_id=I,1,N,Entity Node Primitive ID,-,end2_id.pti,-,:;
```

Column	Description	Value	Value Meaning	Applicable f_code for Each Attribute Value
id	Row Identifier	Sequential beginning with 1		
f_code	FACC Feature Code			
		AQ060	Control Tower	
		AQ110	Mooring Mast	
		GB005	Airport/Airfield	
		GB010	Airport Lighting	
		GB030	Helicopter Landing Pad	
exs	Existence Category			
		-32768	Null	AQ060, AQ110, GB010
		0	Unknown	GB005, GB030
		6	Abandoned/Disused	GB005, GB030
		7	Destroyed	GB005, GB030
		28	Operational	GB005, GB030
hgt	Height Above Surface Level (meters)			
		-32768	Null	GB005, GB010, GB030
		0	Unknown	AQ060, AQ110
		>0	Actual Value	AQ060, AQ110

TABLE E-114. Miscellaneous Aeronautical Point Feature Table (Continued).

lfa	Light Function Aeronautical			
		-32768	Null	AQ060, AQ110, GB005, GB030
		0	Unknown	GB010
		10	Rotating Beacon	GB010
		26	Strobe	GB010
		72	Identification Beacon	GB010
mcc	Material Composition Category			
		-32768	Null	AQ060, AQ110, GB005, GB010
		0	Unknown	GB030
		8	Boulders	GB030
		9	Brick	GB030
		21	Concrete	GB030
		30	Earthen	GB030
		62	Masonry (Brick/Stone)	GB030
		83	Reinforced Concrete	GB030
		117	Wood	GB030
nam	Name			
		Character text string		AQ060, AQ110, GB005, GB010, GB030
		"UNK" (no name present for feature)		AQ060, AQ110, GB005, GB010, GB030
tuc	Transportation Use Category			
		-32768	Null	AQ110, GB005, GB010, GB030
		0	Unknown	AQ060
		3	Railroad	AQ060
		12	Marine	AQ060
		13	Air	AQ060
use	Usage			
		-32768	Null	AQ060, AQ110, GB010, GB030
		0	Unknown	GB005
		8	Military	GB005
		22	Joint Military/Civilian	GB005
		49	Civilian/Public	GB005
		998	Sea-Plane landing area	GB005
zv2	Highest Z Value (meters)			
		-32768	Null	AQ060, AQ110, GB010, GB030
		9999	Unknown	GB005
		-400 to 9998 Actual Value		GB005

TABLE E-115. Bridge Node Feature Table.

Thematic Layer: Transportation
Coverage Name: **trans**
Table Description: Bridge Node Feature Table
Table Name: **bridgec.pft**
dq Layer Number: 7

```
{Header length}L;
Bridge Node Feature Table;-;
id=I,1,P,Row Identifier,-,-,-,:
f_code= T,5,N,FACC Feature Code,char.vdt,-,-,:
bsc=S,1,N,Bridge/Bridge Superstructure Category,int.vdt,-,-,:
bsm=S,1,N,Bridge Span Mobility,int.vdt,-,-,:
exs=S,1,N,Existence Category,int.vdt,-,-,:
lc1=S,1,N,Load Class Type 1 - 1 Way Wheeled (tons),int.vdt,-,-,:
lc2=S,1,N,Load Class Type 2 - 2 Way Wheeled (tons),int.vdt,-,-,:
lc3=S,1,N,Load Class Type 3 - 1 Way Tracked (tons),int.vdt,-,-,:
lc4=S,1,N,Load Class Type 4 - 2 Way Tracked (tons),int.vdt,-,-,:
len=S,1,N,Length (meters),int.vdt,-,-,:
mcc=S,1,N,Material Composition Category,int.vdt,-,-,:
nam=T,*,N,Name,char.vdt,-,-,:
ohc=F,1,N,Overhead Clearance Category (meters),-,-,-,:
shc=F,1,N,Safe Horizontal Clearance (meters),-,-,-,:
tuc=S,1,N,Transportation Use Category,int.vdt,-,-,:
wd1=S,1,N,Minimum Traveled Way Width (decimeters),int.vdt,-,-,:
tile_id=S,1,N,Tile Reference ID,-,tile1_id.nti,-,:
cnd_id=I,1,N,Connected Node Primitive ID,-,cnd1_id.nti,-,:;
```

Column	Description	Value	Value Meaning	Applicable f_code for Each Attribute Value
id	Row Identifier	Sequential beginning with 1		
f_code	FACC Feature Code			
		AQ040	Bridge/Overpass/Viaduct	
bsc	Bridge/Bridge Superstructure Category			
		0	Unknown	AQ040
		1	Arch (assume open spandrel)	AQ040
		2	Cantilever	AQ040
		3	Deck	AQ040
		4	Drawbridge	AQ040
		5	Floating Bridge/Pontoon	AQ040
		6	Girder	AQ040
		7	Tower Suspension	AQ040
		8	Truss	AQ040
		9	Suspension	AQ040
		10	Swing	AQ040
		11	Lift	AQ040
		12	Transporter	AQ040
		13	Bascule	AQ040

TABLE E-115. Bridge Node Feature Table (Continued).

		14	Unspecified Fixed	AQ040
		15	Slab	AQ040
		16	Stringer (Beam)	AQ040
		18	Retractable	AQ040
		999	Other	AQ040
bsm	Bridge Span Mobility			
		0	Unknown	AQ040
		1	Moveable Span	AQ040
		2	Fixed Span	AQ040
exs	Existence Category			
		0	Unknown	AQ040
		5	Under Construction	AQ040
		6	Abandoned/Disused	AQ040
		7	Destroyed	AQ040
		28	Operational	AQ040
		999	Other	AQ040
lc1	Load Class Type 1 - 1 Way Wheeled (tons)			
		0	Unknown	AQ040
		>0	Actual Value	AQ040
lc2	Load Class Type 2 - 2 Way Wheeled (tons)			
		0	Unknown	AQ040
		>0	Actual Value	AQ040
lc3	Load Class Type 3 - 1 Way Tracked (tons)			
		0	Unknown	AQ040
		>0	Actual Value	AQ040
lc4	Load Class Type 4 - 2 Way Tracked (tons)			
		0	Unknown	AQ040
		>0	Actual Value	AQ040
len	Length (meters)			
		0	Unknown	AQ040
		>0	Actual Value	AQ040
mcc	Material Composition Category			
		0	Unknown	AQ040
		21	Concrete	AQ040
		62	Masonry (Brick/Stone)	AQ040
		77	Prestressed Concrete	AQ040
		83	Reinforced Concrete	AQ040
		107	Steel	AQ040
		117	Wood	AQ040
		999	Other	AQ040

TABLE E-115. Bridge Node Feature Table (Continued).

nam	Name			
		Character text string		AQ040
		"UNK" (no name present for feature)		AQ040
ohc	Overhead Clearance Category (meters)			
		0.0	Unknown	AQ040
		999.0	Not Applicable	AQ040
		>0.0	Actual Value	AQ040
shc	Safe Horizontal Clearance (meters)			
		0.0	Unknown	AQ040
		>0.0	Actual Value	AQ040
tuc	Transportation Use Category			
		0	Unknown	AQ040
		1	Both Road and Railroad	AQ040
		3	Railroad	AQ040
		4	Road	AQ040
		17	Pedestrian	AQ040
wd1	Minimum Traveled Way Width (decimeters)			
		0	Unknown	AQ040
		>0	Actual Value	AQ040

TABLE E-116. Ferry Crossing Node Feature Table.

Thematic Layer: Transportation
Coverage Name: **trans**
Table Description: Ferry Crossing Node Feature Table
Table Name: **ferryc.pft**
dq Layer Number: 7

```
{Header length}L;
Ferry Crossing Node Feature Table;-;
id=I,1,P,Row Identifier,-,-,-,:
f_code=T,5,N,FACC Feature Code,char.vdt,-,-,:
exs=S,1,N,Existence Category,int.vdt,-,-,:
fcl=S,1,N,Ferry Crossing Length (meters),int.vdt,-,-,:
fer=S,1,N,Ferry Type,int.vdt,-,-,:
nam=T,*,N,Name,char.vdt,-,-,:
tuc=S,1,N,Transportation Use Category,int.vdt,-,-,:
tile_id=S,1,N,Tile Reference ID,-,tile2_id.nti,-,:
cnd_id=I,1,N,Connected Node Primitive ID,-,cnd2_id.nti,-,:;
```

Column	Description	Value	Value Meaning	Applicable f_code for Each Attribute Value
id	Row Identifier	Sequential beginning with 1		
f_code	FACC Feature Code			
		AQ070	Ferry Crossing	
exs	Existence Category			
		0	Unknown	AQ070
		28	Operational	AQ070
fcl	Ferry Crossing Length (meters)			
		0	Unknown	AQ070
		>0	Actual Value	AQ070
fer	Ferry Type			
		0	Unknown	AQ070
		1	With cables/chains	AQ070
		2	Without cables/chains	AQ070
nam	Name			
		Character text string		AQ070
		"UNK" (no name present for feature)		AQ070
tuc	Transportation Use Category			
		0	Unknown	AQ070
		1	Both Road and Railroad	AQ070
		3	Railroad	AQ070
		4	Road	AQ070
		17	Pedestrian	AQ070

TABLE E-117. Ford Node Feature Table.

Thematic Layer: Transportation
Coverage Name: **trans**
Table Description: Ford Node Feature Table
Table Name: **fordc.pft**
dq Layer Number: 7

```
{Header length}L;
Ford Node Feature Table;-;
id=I,1,P,Row Identifier,-,-,-,:
f_code=T,5,N,FACC Feature Code,char.vdt,-,-,:
len=S,1,N,Length (meters),int.vdt,-,-,:
tile_id=S,1,N,Tile Reference ID,-,tile3_id.nti,-,:
cnd_id=I,1,N,Connected Node Primitive ID,-,cnd3_id.nti,-,:;
```

Column	Description	Value	Value Meaning	Applicable f_code for Each Attribute Value
id	Row Identifier	Sequential beginning with 1		
f_code	FACC Feature Code			
		BH070	Ford	
len	Length (meters)			
		0	Unknown	BH070
		>0	Actual Value	BH070

TABLE E-118. Station Node Feature Table.

Thematic Layer: Transportation
Coverage Name: **trans**
Table Description: Station Node Feature Table
Table Name: **stationc.pft**
dq Layer Number: 7

```
{Header length}L;
Station Node Feature Table;-;
id=I,1,P,Row Identifier,-,-,-,:
f_code=T,5,N,FACC Feature Code,char.vdt,f_code4.nti,-,:
gtc=S,1,N,Gate Type Category,int.vdt,-,-,:
loc=S,1,N,Location Category,int.vdt,-,-,:
nam=T,*,N,Name,char.vdt,-,-,:
tuc=S,1,N,Transportation Use Category,int.vdt,-,-,:
tile_id=S,1,N,Tile Reference ID,-,tile4_id.nti,-,:
cnd_id=I,1,N,Connected Node Primitive ID,-,cnd4_id.nti,-,:;
```

Column	Description	Value	Value Meaning	Applicable f_code for Each Attribute Value
id	Row Identifier	Sequential beginning with 1		
f_code	FACC Feature Code			
		AP040	Gate	
		AQ125	Station (Miscellaneous)	
gtc	Gate Type Category			
		-32768	Null	AQ125
		1	Tollgate	AP040
		99	Other	AP040
loc	Location Category			
		0	Unknown	AP040, AQ125
		4	Below Surface/Submerged/ Underground	AP040, AQ125
		8	On Ground Surface	AP040, AQ125
		25	Suspended/Elevated Above Ground or Water Surface	AP040, AQ125
nam	Name			
		Character text string		AP040, AQ125
		"UNK" (no name present for feature)		AP040, AQ125
tuc	Transportation Use Category			
		0	Unknown	AP040, AQ125
		3	Railroad	AP040, AQ125
		14	Bus	AP040, AQ125
		40	Subway	AP040, AQ125

TABLE E-119. Tunnel Entrance/Exit Node Feature Table.

Thematic Layer: Transportation
Coverage Name: **trans**
Table Description: Tunnel Entrance/Exit Node Feature Table
Table Name: **tunenexc.pft**
dq Layer Number: 7

```
{Header length}L;
Tunnel Entrance/Exit Node Feature Table;-;
id=I,1,P,Row Identifier,-,-,-,:
f_code=T,5,N,FACC Feature Code,char.vdt,-,-,:
nam=T,*,N,Name,char.vdt,-,-,:
ohc=S,1,N,Overhead Clearance Category (meters),int.vdt,-,-,:
tuc=S,1,N,Transportation Use Category,int.vdt,-,-,:
wid=S,1,N,Width (meters),int.vdt,-,-,:
tile_id=S,1,N,Tile Reference ID,-,tile5_id.nti,-,:
cnd_id=I,1,N,Connected Node Primitive ID,-,cnd5_id.nti,-,:;
```

Column	Description	Value	Value Meaning	Applicable f_code for Each Attribute Value
id	Row Identifier	Sequential beginning with 1		
f_code	FACC Feature Code			
		AQ090	Entrance/Exit	
nam	Name			
		Character text string		AQ090
		"UNK" (no name present for feature)		AQ090
ohc	Overhead Clearance Category (meters)			
		0	Unknown	AQ090
		999	Not Applicable	AQ090
		>0	Actual Value	AQ090
tuc	Transportation Use Category			
		0	Unknown	AQ090
		1	Both Road and Railroad	AQ090
		3	Railroad	AQ090
		4	Road	AQ090
		17	Pedestrian	AQ090
wid	Width (meters)			
		0	Unknown	AQ090
		>0	Actual Value	AQ090

TABLE E-120. Aircraft Facility Line Feature Table.

Thematic Layer: Transportation
Coverage Name: **trans**
Table Description: Aircraft Facility Line Feature Table
Table Name: **aerofacl.lft**
dq Layer Number: 7

```
{Header length}L;
Aircraft Facility Line Feature Table;-;
id=I,1,P,Row Identifier,-,-,-,:
f_code=T,5,N,FACC Feature Code,char.vdt,f_code1.lti,-,:
exs=S,1,N,Existence Category,int.vdt,-,-,:
mcc=S,1,N,Material Composition Category,int.vdt,-,-,:
rst=S,1,N,Road/Runway Surface Type,int.vdt,-,-,:
zv2=S,1,N,Highest Z Value (meters),int.vdt,-,-,:;
```

Column	Description	Value	Value Meaning	Applicable f_code for Each Attribute Value
id	Row Identifier	Sequential beginning with 1		
f_code	FACC Feature Code			
		GB045	Overrun/Stopway	
		GB050	Revetment (Airfield)	
		GB055	Runway	
		GB075	Taxiway	
exs	Existence Category			
		-32768	Null	GB045
		0	Unknown	GB050, GB055, GB075
		5	Under Construction	GB050, GB055
		6	Abandoned/Disused	GB050, GB055, GB075
		7	Destroyed	GB050, GB055
		28	Operational	GB050, GB055, GB075
mcc	Material Composition Category			
		-32768	Null	GB045, GB075
		0	Unknown	GB050, GB055
		8	Boulders	GB050
		9	Brick	GB050, GB055
		21	Concrete	GB050, GB055
		30	Earthen	GB050, GB055
		62	Masonry (Brick/Stone)	GB050, GB055
		83	Reinforced Concrete	GB050, GB055
		117	Wood	GB050, GB055
rst	Road/Runway Surface Type			
		-32768	Null	GB045, GB050, GB075
		0	Unknown	GB055
		5	Grass/Sod (soft)	GB055
		7	Permanent	GB055
		8	Temporary	GB055

TABLE E-120. Aircraft Facility Line Feature Table (Continued).

zv2	Highest Z Value(meters)			
		-32768	Null	GB045, GB050, GB075
		9999	Unknown	GB055
		-400 to 9998		GB055

TABLE E-121. Bridge Line Feature Table.

Thematic Layer: Transportation
Coverage Name: **trans**
Table Description: Bridge Line Feature Table
Table Name: **bridgel.lft**
dq Layer Number: 7

```
{Header length}L;
Bridge Line Feature Table;-;
id=I,1,P,Row Identifier,-,-,-,:
f_code=T,5,N,FACC Feature Code,char.vdt,f_code2.lti,-,:
bcc=S,1,N,Bypass Condition Category,int.vdt,-,-,:
bsc=S,1,N,Bridge/Bridge Superstructure Category,int.vdt,-,-,:
bsm=S,1,N,Bridge Span Mobility,int.vdt,-,-,:
exs=S,1,N,Existence Category,int.vdt,-,-,:
lc1=S,1,N,Load Class Type 1 - 1 Way Wheeled (tons),int.vdt,-,-,:
lc2=S,1,N,Load Class Type 2 - 2 Way Wheeled (tons),int.vdt,-,-,:
lc3=S,1,N,Load Class Type 3 - 1 Way Tracked (tons),int.vdt,-,-,:
lc4=S,1,N,Load Class Type 4 - 2 Way Tracked (tons),int.vdt,-,-,:
mcc=S,1,N,Material Composition Category,int.vdt,-,-,:
nam=T,*,N,Name,char.vdt,-,-,:
ohc=F,1,N,Overhead Clearance Category (meters),-,-,-,:
shc=F,1,N,Safe Horizontal Clearance (meters),-,-,-,:
tuc=S,1,N,Transportation Use Category,int.vdt,-,-,:
wd1=S,1,N,Minimum Traveled Way Width (decimeters),int.vdt,-,-,:;
```

Column	Description	Value	Value Meaning	Applicable f_code for Each Attribute Value
id	Row Identifier	Sequential beginning with 1		
f_code	FACC Feature Code			
		AQ040	Bridge/Overpass/Viaduct	
		AQ130	Tunnel	
bcc	Bypass Condition Category			
		-32768	Null	AQ130
		0	Unknown	AQ040
		1	Easy (Obstacle can be crossed within 2 KM of feature, no work)	AQ040
		2	Difficult (Obstacle can be crossed within 2 KM of feature, work required)	AQ040
		3	Impossible (Obstacle cannot be bypassed within 2 KM of feature)	AQ040

TABLE E-121. Bridge Line Feature Table (Continued).

bsc	Bridge/Bridge Superstructure Category			
		-32768	Null	AQ130
		0	Unknown	AQ040
		1	Arch (assume open spandrel)	AQ040
		2	Cantilever	AQ040
		3	Deck	AQ040
		4	Drawbridge	AQ040
		5	Floating Bridge/Pontoon	AQ040
		6	Girder	AQ040
		7	Tower Suspension	AQ040
		8	Truss	AQ040
		9	Suspension	AQ040
		10	Swing	AQ040
		11	Lift	AQ040
		12	Transporter	AQ040
		13	Bascule	AQ040
		14	Unspecified Fixed	AQ040
		15	Slab	AQ040
		16	Stringer (Beam)	AQ040
		18	Retractable	AQ040
		999	Other	AQ040
bsm	Bridge Span Mobility			
		-32768	Null	AQ130
		0	Unknown	AQ040
		1	Moveable Span	AQ040
		2	Fixed Span	AQ040
exs	Existence Category			
		0	Unknown	AQ040, AQ130
		5	Under Construction	AQ040, AQ130
		6	Abandoned/Disused	AQ040, AQ130
		7	Destroyed	AQ040, AQ130
		28	Operational	AQ040, AQ130
		999	Other	AQ040, AQ130
lc1	Load Class Type 1 - 1 Way Wheeled (tons)			
		-32768	Null	AQ130
		0	Unknown	AQ040
		>0	Actual Value	AQ040
lc2	Load Class Type 2 - 2 Way Wheeled (tons)			
		-32768	Null	AQ130
		0	Unknown	AQ040
		>0	Actual Value	AQ040
lc3	Load Class Type 3 - 1 Way Tracked (tons)			
		-32768	Null	AQ130
		0	Unknown	AQ040
		>0	Actual Value	AQ040

TABLE E-121. Bridge Line Feature Table (Continued).

lc4	Load Class Type 4 - 2 Way Tracked (tons)			
		-32768	Null	AQ130
		0	Unknown	AQ040
		>0	Actual Value	AQ040
mcc	Material Composition Category			
		-32768	Null	AQ130
		0	Unknown	AQ040
		21	Concrete	AQ040
		62	Masonry (Brick/Stone)	AQ040
		77	Prestressed Concrete	AQ040
		83	Reinforced Concrete	AQ040
		107	Steel	AQ040
		117	Wood	AQ040
		999	Other	AQ040
nam	Name			
		Character text string		AQ040, AQ130
		"UNK" (no name present for feature)		AQ040, AQ130
ohc	Overhead Clearance Category (meters)			
		NaN	Null	AQ130
		0.0	Unknown	AQ040
		999.0	Not Applicable	AQ040
		>0.0	Actual Value	AQ040
shc	Safe Horizontal Clearance (meters)			
		NaN	Null	AQ130
		0.0	Unknown	AQ040
		>0.0	Actual Value	AQ040
tuc	Transportation Use Category			
		0	Unknown	AQ040, AQ130
		1	Both Road and Railroad	AQ040, AQ130
		3	Railroad	AQ040, AQ130
		4	Road	AQ040, AQ130
		17	Pedestrian	AQ040, AQ130
wd1	Minimum Traveled Way Width (decimeters)			
		-32768	Null	AQ130
		0	Unknown	AQ040
		>0	Actual Value	AQ040

TABLE E-122. Ferry Crossing Line Feature Table.

Thematic Layer: Transportation
Coverage Name: **trans**
Table Description: Ferry Crossing Line Feature Table
Table Name: **ferryl.lft**
dq Layer Number: 7

```
{Header length}L;
Ferry Crossing Line Feature Table;-;
id=I,1,P,Row Identifier,-,-,-,:
f_code=T,5,N,FACC Feature Code,char.vdt,-,-,:
exs=S,1,N,Existence Category,int.vdt,-,-,:
fcl=S,1,N,Ferry Crossing Length (meters),int.vdt,-,-,:
fer=S,1,N,Ferry Type,int.vdt,-,-,:
nam=T,*,N,Name,char.vdt,-,-,:
tuc=S,1,N,Transportation Use Category,int.vdt,-,-,:;
```

Column	Description	Value	Value Meaning	Applicable f_code for Each Attribute Value
id	Row Identifier	Sequential beginning with 1		
f_code	FACC Feature Code			
		AQ070	Ferry Crossing	
exs	Existence Category			
		0	Unknown	AQ070
		28	Operational	AQ070
fcl	Ferry Crossing Length (meters)			
		0	Unknown	AQ070
		>0	Actual Value	AQ070
fer	Ferry Type			
		0	Unknown	AQ070
		1	With cables/chains	AQ070
		2	Without cables/chains	AQ070
nam	Name			
		Character text string		AQ070
		"UNK" (no name present for feature)		AQ070
tuc	Transportation Use Category			
		0	Unknown	AQ070
		1	Both Road and Railroad	AQ070
		3	Railroad	AQ070
		4	Road	AQ070
		17	Pedestrian	AQ070

TABLE E-123. Ford Line Feature Table.

Thematic Layer: Transportation
Coverage Name: **trans**
Table Description: Ford Line Feature Table
Table Name: **fordl.lft**
dq Layer Number: 7

```
{Header length}L;
Ford Line Feature Table;-;
id=I,1,P,Row Identifier,-,-,-,:
f_code=T,5,N,FACC Feature Code,char.vdt,-,-,:;
```

Column	**Description**	**Value**	**Value Meaning**	**Applicable f_code for Each Attribute Value**
id	Row Identifier	Sequential beginning with 1		
f_code	FACC Feature Code			
		BH070	Ford	

TABLE E-124. Pier Line Feature Table.

Thematic Layer: Transportation
Coverage Name: **trans**
Table Description: Pier Line Feature Table
Table Name: **pierl.lft**
dq Layer Number: 7

```
{Header length}L;
Pier Line Feature Table;-;
id=I,1,P,Row Identifier,-,-,-,:
f_code=T,5,N,FACC Feature Code,char.vdt,-,-,:
use=S,1,N,Usage,int.vdt,-,-,:
wid=S,1,N,Width (meters),int.vdt,-,-,:;
```

Column	Description	Value	Value Meaning	Applicable f_code for Each Attribute Value
id	Row Identifier	Sequential beginning with 1		
f_code	FACC Feature Code			
		BB190	Pier/Wharf/Quay	
use	Usage			
		0	Unknown	BB190
		8	Military	BB190
		22	Joint Military/Civilian	BB190
		49	Civilian/Public	BB190
wid	Width (meters)			
		0	Unknown	BB190
		>0	Actual Value	BB190

TABLE E-125. Railroad Line Feature Table.

Thematic Layer: Transportation
Coverage Name: **trans**
Table Description: Railroad Line Feature Table
Table Name: **railrdl.lft**
dq Layer Number: 7

```
{Header length}L;
Railroad Line Feature Table;-;
id=I,1,P,Row Identifier,-,-,-,:
f_code=T,5,N,FACC Feature Code,char.vdt,f_code6.lti,-,:
acc=S,1,N,Accuracy Category,int.vdt,-,-,:
exs=S,1,N,Existence Category,int.vdt,-,-,:
gaw=S,1,N,Gauge Width (centimeters),int.vdt,-,-,:
loc=S,1,N,Location Category,int.vdt,-,-,:
ltn=S,1,N,Track/Lane Number,int.vdt,-,-,:
nam=T,*,N,Name,char.vdt,-,-,:
rgc=S,1,N,Railroad Gauge Category,int.vdt,-,-,:;
rra=S,1,N,Railroad Power Source,int.vdt,-,-,:
rrc=S,1,N,Railroad Categories,int.vdt,-,-,:
rsa=S,1,N,Rail Siding/Spur Attribute,int.vdt,-,-,:;
```

Column	Description	Value	Value Meaning	Applicable f_code for Each Attribute Value
id	Row Identifier	Sequential beginning with 1		
f_code	FACC Feature Code			
		AN010	Railroad	
		AN050	Railroad Siding/Railroad Spur	
acc	Accuracy Category			
		-32768	Null	AN050
		0	Unknown	AN010
		1	Accurate	AN010
		2	Approximate	AN010
exs	Existence Category			
		0	Unknown	AN010, AN050
		5	Under Construction	AN010, AN050
		6	Abandoned/Disused	AN010, AN050
		7	Destroyed	AN010, AN050
		8	Dismantled	AN010, AN050
		28	Operational	AN010, AN050
gaw	Gauge Width (centimeters)			
		0	Unknown	AN010, AN050
		>0	Actual Value	AN010, AN050

TABLE E-125. Railroad Line Feature Table (Continued).

loc	Location Category			
		-32768	Null	AN050
		0	Unknown	AN010
		4	Below Surface/Submerged/ Underground	AN010
		8	On Ground Surface	AN010
		25	Suspended/Elevated Above Ground or Water Surface	AN010
ltn	Track/Lane Number			
		-32768	Null	AN050
		0	Unknown	AN010
		>0	Actual Value	AN010
nam	Name			
		VLT=0-length	Null	AN050
		Character text string		AN010
		"UNK" (no name present for feature)		AN010
rgc	Railroad Gauge Category			
		0	Unknown	AN010, AN050
		1	Broad	AN010, AN050
		2	Narrow	AN010, AN050
		3	Normal (Standard)	AN010, AN050
rra	Railroad Power Source			
		0	Unknown	AN010, AN050
		1	Electrified Track	AN010, AN050
		3	Overhead Electrified	AN010, AN050
		4	Non-electrified	AN010, AN050
rrc	Railroad Categories			
		0	Unknown	AN010, AN050
		2	Car-Line	AN010
		3	Monorail	AN010
		6	Subway	AN010
		8	Logging	AN010
		13	Marine Railroad	AN010
		14	Tramway	AN010
		16	Main Line	AN010
		17	Branch Line	AN010
		21	Railroad in Road	AN010, AN050
rsa	Rail Siding/Spur Attribute			
		-32768	Null	AN010
		1	Spur	AN050
		2	Siding	AN050
		3	Passing	AN050

TABLE E-126. Ramp Line Feature Table.

Thematic Layer: Transportation
Coverage Name: **trans**
Table Description: Ramp Line Feature Table
Table Name: **rampl.lft**
dq Layer Number: 7

```
{Header length}L;
Ramp Line Feature Table;-;
id=I,1,P,Row Identifier,-,-,-,:
f_code=T,5,N,FACC Feature Code,char.vdt,-,-,:
vrr=S,1,N,Vertical Reference Category,int.vdt,-,-,:
wid=S,1,N,Width (meters),int.vdt,-,-,:;
```

Column	Description	Value	Value Meaning	Applicable f_code for Each Attribute Value
id	Row Identifier	Sequential beginning with 1		
f_code	FACC Feature Code			
		BB240	Slipway/Patent Slip	
vrr	Vertical Reference Category			
		0	Unknown	BB240
		1	Above Surface/Does not cover (At High Water)	BB240
wid	Width (meters)			
		0	Unknown	BB240
		>0	Actual Value	BB240

TABLE E-127. Road Line Feature Table.

Thematic Layer: Transportation
Coverage Name: **trans**
Table Description: Road Line Feature Table
Table Name: **roadl.lft**
dq Layer Number: 7

```
{Header length}L;
Road Line Feature Table;-;
id=I,1,P,Row Identifier,-,-,-,:
f_code=T,5,N,FACC Feature Code,char.vdt,f_code8.lti,-,:
acc=S,1,N,Accuracy Category,int.vdt,-,-,:
exs=S,1,N,Existence Category,int.vdt,-,-,:
loc=S,1,N,Location Category,int.vdt,-,-,:
ltn=S,1,N,Track/Lane Number,int.vdt,-,-,:
med=S,1,N,Median Category,int.vdt,-,-,:
nam=T,*,N,Name,char.vdt,-,-,:
rit=S,1,N,Road Interchange Type,int.vdt,-,-,:
rst=S,1,N,Road/Runway Surface Type,int.vdt,-,-,:
rtn=T,*,N,Route Number,char.vdt,-,-,:
tuc=S,1,N,Transportation Use Category,int.vdt,-,-,:
use=S,1,N,Usage,int.vdt,-,-,:
wd1=S,1,N,Minimum Traveled Way Width (decimeters),int.vdt,-,-,:
wtc=S,1,N,Weather Type Category,int.vdt,-,-,:;
```

Column	Description	Value	Value Meaning	Applicable f_code for Each Attribute Value
id	Row Identifier	Sequential beginning with 1		
f_code	FACC Feature Code			
		AP020	Interchange	
		AP030	Road	
acc	Accuracy Category			
		-32768	Null	AP020
		0	Unknown	AP030
		1	Accurate	AP030
		2	Approximate	AP030
exs	Existence Category			
		0	Unknown	AP020, AP030
		5	Under Construction	AP020, AP030
		6	Abandoned/Disused	AP020, AP030
		7	Destroyed	AP020, AP030
		28	Operational	AP020, AP030
		999	Other	AP020, AP030

TABLE E-127. Road Line Feature Table (Continued).

loc	Location Category			
		0	Unknown	AP020, AP030
		4	Below Surface/Submerged/ Underground	AP020, AP030
		8	On Ground Surface	AP020, AP030
		25	Suspended/Elevated Above Ground or Water Surface	AP020, AP030
ltn	Track/Lane Number			
		0	Unknown	AP020, AP030
		>0	Actual Value	AP020, AP030
med	Median Category			
		-32768	Null	AP020
		0	Unknown	AP030
		1	With Median	AP030
		2	Without Median	AP030
nam	Name			
		Character text string		AP020, AP030
		"UNK" (no name present for feature)		AP020, AP030
rit	Road Interchange Type			
		-32768	Null	AP030
		0	Unknown	AP020
		1	Cloverleaf	AP020
		2	Diamond	AP020
		3	Fork	AP020
		4	Rotary/Traffic Circle/ Roundabout	AP020
		5	Staggered Ramps	AP020
		6	Standard Ramps	AP020
		7	Symmetrical Ramps	AP020
		8	Trumpet	AP020
		9	Turban	AP020
		10	Wye	AP020
		999	Other	AP020
rst	Road/Runway Surface Type			
		0	Unknown	AP020, AP030
		1	Hard/Paved	AP020, AP030
		2	Loose/Unpaved	AP030
		3	Loose/Light	AP030
rtn	Route Number			
		Character text string		AP020, AP030
		"UNK" (no route number present for feature)		AP020, AP030

TABLE E-127. Road Line Feature Table (Continued).

tuc	Transportation Use Category			
		0	Unknown	AP020, AP030
		1	Both Road and Railroad	AP030
		4	Road	AP020, AP030
		6	Street	AP030
		7	Through Routes	AP020, AP030
		39	Caravan Route	AP030
use	Usage			
		0	Unknown	AP020, AP030
		26	Primary/1st Order	AP020, AP030
		30	Secondary/2nd Order	AP020, AP030
wd1	Minimum Traveled Way Width (decimeters)			
		0	Unknown	AP020, AP030
		>0	Actual Value	AP020, AP030
wtc	Weather Type Category			
		0	Unknown	AP020, AP030
		1	All Weather	AP020, AP030
		2	Fair/Dry Weather	AP030
		3	Winter Only	AP030
		4	All Weather (Limited Traffic Due to Weather)	AP030

TABLE E-128. Cart Track Line Feature Table.

Thematic Layer: Transportation
Coverage Name: **trans**
Table Description: Cart Track Line Feature Table
Table Name: **trackl.lft**
dq Layer Number: 7

```
{Header length}L;
Cart Track Line Feature Table;-;
id=I,1,P,Row Identifier,-,-,-,:
f_code=T,5,N,FACC Feature Code,char.vdt,-,-,:
wtc=S,1,N,Weather Type Category,int.vdt,-,-,:;
```

Column	Description	Value	Value Meaning	Applicable f_code for Each Attribute Value
id	Row Identifier	Sequential beginning with 1		
f_code	FACC Feature Code			
		AP010	Cart Track	
wtc	Weather Type Category			
		0	Unknown	AP010
		2	Fair/Dry Weather	AP010
		3	Winter Only	AP010

TABLE E-129. Trail Line Feature Table.

Thematic Layer: Transportation
Coverage Name: **trans**
Table Description: Trail Line Feature Table
Table Name: **traill.lft**
dq Layer Number: 7

```
{Header length}L;
Trail Line Feature Table;-;
id=I,1,P,Row Identifier,-,-,-,:
f_code=T,5,N,FACC Feature Code,char.vdt,-,-,:
wtc=S,1,N,Weather Type Category,int.vdt,-,-,:;
```

Column	Description	Value	Value Meaning	Applicable f_code for Each Attribute Value
id	Row Identifier	Sequential beginning with 1		
f_code	FACC Feature Code			
		AP050	Trail	
wtc	Weather Type Category			
		0	Unknown	AP050
		2	Fair/Dry Weather	AP050
		3	Winter Only	AP050

TABLE E-130. Tram Line Feature Table.

Thematic Layer: Transportation
Coverage Name: **trans**
Table Description: Tram Line Feature Table
Table Name: **traml.lft**
dq Layer Number: 7

```
{Header length}L;
Tram Line Feature Table;-;
id=I,1,P,Row Identifier,-,-,-,:
f_code=T,5,N,FACC Feature Code,char.vdt,-,-,:
use=S,1,N,Usage,int.vdt,-,-,:;
```

Column	**Description**	**Value**	**Value Meaning**	**Applicable f_code for Each Attribute Value**
id	Row Identifier	Sequential beginning with 1		
f_code	FACC Feature Code			
		AQ010	Aerial Cableway Lines/Ski Lift Lines	
use	Usage			
		0	Unknown	AQ010
		120	Recreational	AQ010
		130	Transportation	AQ010
		999	Other	AQ010

TABLE E-131. Aircraft Facility Area Feature Table.

Thematic Layer: Transportation
Coverage Name: **trans**
Table Description: Aircraft Facility Area Feature Table
Table Name: **aerofaca.aft**
dq Layer Number: 7

```
{Header length}L;
Aircraft Facility Area Feature Table;-;
id=I,1,P,Row Identifier,-,-,-,:
f_code=T,5,N,FACC Feature Code,char.vdt,f_code1.ati,-,:
ara=S,1,N,Area Coverage Attribute (sq. meters),int.vdt,-,-,:
arh=S,1,N,Area Coverage Attribute Hectares,-,-,-,:
cod=S,1,N,Certainty of Delineation,int.vdt,-,-,:
exs=S,1,N,Existence Category,int.vdt,-,-,:
mcc=S,1,N,Material Composition Category,int.vdt,-,-,:
nam=T,*,N,Name,char.vdt,-,-,:
rst=S,1,N,Road/Runway Surface Type,int.vdt,-,-,:
use=S,1,N,Usage,int.vdt,-,-,:
zv2=S,1,N,Highest Z Value (meters),int.vdt,-,-,:;
```

Column	Description	Value	Value Meaning	Applicable f_code for Each Attribute Value
id	Row Identifier	Sequential beginning with 1		
f_code	FACC Feature Code			
		GB005	Airport/Airfield	
		GB015	Apron/Hardstand	
		GB030	Helicopter Landing Pad	
		GB035	Heliport	
		GB045	Overrun/Stopway	
		GB050	Revetment (Airfield)	
		GB055	Runway	
		GB075	Taxiway	
ara	Area Coverage Attribute (sq. meters)			
		-32768	Null	GB005 **arh**>0, GB015, GB030 **arh**>0, GB035 **arh**>0, GB045, GB050, GB055 **arh**>0, GB075
		0	Unknown	GB005 **arh**=-32768, GB030 **arh**=-32768, GB035 **arh**=-32768, GB055 **arh**=-32768
		>0	Actual Value	GB005 **arh**=-32768, GB030 **arh**=-32768, GB035 **arh**=-32768, GB055 **arh**=-32768

TABLE E-131. Aircraft Facility Area Feature Table (Continued).

arh	Area Coverage Attribute Hectares			
		-32768	Null	GB005 **ara**>=0, GB015, GB030 **ara**>=0, GB035 **ara**>=0, GB045, GB050, GB055 **ara**>=0, GB075
		>0	Actual Value	GB005 **ara**=-32768, GB030 **ara**=-32768, GB035 **ara**=-32768, GB055 **ara**=-32768
cod	Certainty of Delineation			
		-32768	Null	GB015, GB045, GB050, GB055, GB075
		0	Unknown	GB005, GB030, GB035
		1	Limits and Information Known	GB005, GB030, GB035
exs	Existence Category			
		-32768	Null	GB015, GB045
		0	Unknown	GB005, GB030, GB035, GB050, GB055, GB075
		5	Under Construction	GB030, GB050, GB055
		6	Abandoned/Disused	GB005, GB030, GB035, GB050, GB055, GB075
		7	Destroyed	GB005, GB030, GB050, GB055
		28	Operational	GB005, GB030, GB035, GB050, GB055, GB075
mcc	Material Composition Category			
		-32768	Null	GB005, GB015, GB035, GB045, GB075
		0	Unknown	GB030, GB050, GB055
		8	Boulders	GB030, GB050
		9	Brick	GB030, GB050, GB055
		21	Concrete	GB030, GB050, GB055
		30	Earthen	GB030, GB050, GB055
		62	Masonry (Brick/Stone)	GB030, GB050, GB055
		83	Reinforced Concrete	GB030, GB050, GB055
		117	Wood	GB030, GB050, GB055
nam	Name			
		VLT=0-length	Null	GB015, GB045, GB050, GB075
		Character text string		GB005, GB030, GB035, GB055
		"UNK" (no name present for feature)		GB005, GB030, GB035, GB055

TABLE E-131. Aircraft Facility Area Feature Table (Continued).

rst	Road/Runway Surface Type			
		-32768	Null	GB005, GB015, GB035, GB045, GB050, GB075
		0	Unknown	GB030, GB055
		5	Grass/Sod (soft)	GB030, GB055
		7	Permanent	GB030, GB055
		8	Temporary	GB030, GB055
use	Usage			
		-32768	Null	GB015, GB045, GB050, GB075
		0	Unknown	GB005, GB030, GB035, GB055
		8	Military	GB005, GB030, GB035, GB055
		22	Joint Military/Civilian	GB005, GB030, GB035, GB055
		49	Civilian/Public	GB005, GB030, GB035, GB055
		998	Sea-Plane landing area	GB005, GB055
zv2	Highest Z Value (meters)			
		-32768	Null	GB015, GB045, GB050, GB075
		9999	Unknown	GB005, GB030, GB035, GB055
		-400 to 9998		GB005, GB030, GB035, GB055

TABLE E-132. Bridge Area Feature Table.

Thematic Layer: Transportation
Coverage Name: **trans**
Table Description: Bridge Area Feature Table
Table Name: **bridgea.aft**
dq Layer Number: 7

```
{Header length}L;
Bridge Area Feature Table;-;
id=I,1,P,Row Identifier,-,-,-,:
f_code=T,5,N,FACC Feature Code,char.vdt,f_code2.ati,-,:
bcc=S,1,N,Bypass Condition Category,int.vdt,-,-,:
bsc=S,1,N,Bridge/Bridge Superstructure Category,int.vdt,-,-,:
bsm=S,1,N,Bridge Span Mobility,int.vdt,-,-,:
exs=S,1,N,Existence Category,int.vdt,-,-,:
lc1=S,1,N,Load Class Type 1 - 1 Way Wheeled (tons),int.vdt,-,-,:
lc2=S,1,N,Load Class Type 2 - 2 Way Wheeled (tons),int.vdt,-,-,:
lc3=S,1,N,Load Class Type 3 - 1 Way Tracked (tons),int.vdt,-,-,:
lc4=S,1,N,Load Class Type 4 - 2 Way Tracked (tons),int.vdt,-,-,:
mcc=S,1,N,Material Composition Category,int.vdt,-,-,:
nam=T,*,N,Name,char.vdt,-,-,:
ohc=F,1,N,Overhead Clearance Category (meters),-,-,-,:
shc=F,1,N,Safe Horizontal Clearance (meters),-,-,-,:
tuc=S,1,N,Transportation Use Category,int.vdt,-,-,:
wd1=S,1,N,Minimum Traveled Way Width (decimeters),int.vdt,-,-,:;
```

Column	Description	Value	Value Meaning	Applicable f_code for Each Attribute Value
id	Row Identifier	Sequential beginning with 1		
f_code	FACC Feature Code			
		AQ040	Bridge/Overpass/Viaduct	
		AQ130	Tunnel	
bcc	Bypass Condition Category			
		-32768	Null	AQ130
		0	Unknown	AQ040
		1	Easy (Obstacle can be crossed within 2 KM of feature, no work)	AQ040
		2	Difficult (Obstacle can be crossed within 2 KM of feature, work required)	AQ040
		3	Impossible (Obstacle cannot be bypassed within 2 KM of feature)	AQ040

TABLE E-132. Bridge Area Feature Table (Continued).

bsc	Bridge/Bridge Superstructure Category			
		-32768	Null	AQ130
		0	Unknown	AQ040
		1	Arch (assume open spandrel)	AQ040
		2	Cantilever	AQ040
		3	Deck	AQ040
		4	Drawbridge	AQ040
		5	Floating Bridge/Pontoon	AQ040
		6	Girder	AQ040
		7	Tower Suspension	AQ040
		8	Truss	AQ040
		9	Suspension	AQ040
		10	Swing	AQ040
		11	Lift	AQ040
		12	Transporter	AQ040
		13	Bascule	AQ040
		14	Unspecified Fixed	AQ040
		15	Slab	AQ040
		16	Stringer (Beam)	AQ040
		18	Retractable	AQ040
		999	Other	AQ040
bsm	Bridge Span Mobility			
		-32768	Null	AQ130
		0	Unknown	AQ040
		1	Moveable Span	AQ040
		2	Fixed Span	AQ040
exs	Existence Category			
		0	Unknown	AQ040, AQ130
		5	Under Construction	AQ040, AQ130
		6	Abandoned/Disused	AQ040, AQ130
		7	Destroyed	AQ040, AQ130
		28	Operational	AQ040, AQ130
		999	Other	AQ040, AQ130
lc1	Load Class Type 1 - 1 Way Wheeled (tons)			
		-32768	Null	AQ130
		0	Unknown	AQ040
		>0	Actual Value	AQ040
lc2	Load Class Type 2 - 2 Way Wheeled (tons)			
		-32768	Null	AQ130
		0	Unknown	AQ040
		>0	Actual Value	AQ040

TABLE E-132. Bridge Area Feature Table (Continued).

lc3	Load Class Type 3 - 1 Way Tracked (tons)			
		-32768	Null	AQ130
		0	Unknown	AQ040
		>0	Actual Value	AQ040
lc4	Load Class Type 4 - 2 Way Tracked (tons)			
		-32768	Null	AQ130
		0	Unknown	AQ040
		>0	Actual Value	AQ040
mcc	Material Composition Category			
		-32768	Null	AQ130
		0	Unknown	AQ040
		21	Concrete	AQ040
		62	Masonry (Brick/Stone)	AQ040
		77	Prestressed Concrete	AQ040
		83	Reinforced Concrete	AQ040
		107	Steel	AQ040
		117	Wood	AQ040
		999	Other	AQ040
nam	Name			
		VLT=0-length	Null	AQ130
		Character text string		AQ040
		"UNK" (no name present for feature)		AQ040
ohc	Overhead Clearance Category (meters)			
		NaN	Null	AQ130
		0.0	Unknown	AQ040
		999.0	Not Applicable	AQ040
		>0.0	Actual Value	AQ040
shc	Safe Horizontal Clearance (meters)			
		NaN	Null	AQ130
		0.0	Unknown	AQ040
		>0.0	Actual Value	AQ040
tuc	Transportation Use Category			
		0	Unknown	AQ040, AQ130
		1	Both Road and Railroad	AQ040, AQ130
		3	Railroad	AQ040, AQ130
		4	Road	AQ040, AQ130
		17	Pedestrian	AQ040, AQ130
wd1	Minimum Traveled Way Width (decimeters)			
		-32768	Null	AQ130
		0	Unknown	AQ040
		>0	Actual Value	AQ040

TABLE E-133. Harbor Area Feature Table.

Thematic Layer: Transportation
Coverage Name: **trans**
Table Description: Harbor Area Feature Table
Table Name: **harbora.aft**
dq Layer Number: 7

```
{Header length}L;
Harbor Area Feature Table;-;
id=I,1,P,Row Identifier,-,-,-,:
f_code=T,5,N,FACC Feature Code,char.vdt,f_code3.ati,-,:
loc=S,1,N,Location Category,int.vdt,-,-,:
use=S,1,N,Usage,int.vdt,-,-,:;
```

Column	Description	Value	Value Meaning	Applicable f_code for Each Attribute Value
id	Row Identifier	Sequential beginning with 1		
f_code	FACC Feature Code			
		BB090	Drydock	
		BB190	Pier/Wharf/Quay	
loc	Location Category			
		0	Unknown	BB090, BB190
		15	On Water Surface/Floating	BB090, BB190
		30	Non-Floating	BB090, BB190
use	Usage			
		0	Unknown	BB090, BB190
		8	Military	BB090, BB190
		22	Joint Military/Civilian	BB090, BB190
		49	Civilian/Public	BB090, BB190

TABLE E-134. Parking/Rail Area Feature Table.

Thematic Layer: Transportation
Coverage Name: **trans**
Table Description: Parking Rail Area Feature Table
Table Name: **prkraila.aft**
dq Layer Number: 7

```
{Header length}L;
Parking/Rail Area Feature Table;-;
id=I,1,P,Row Identifier,-,-,-,:
f_code=T,5,N,FACC Feature Code,char.vdt,f_code4.ati,-,:
exs=S,1,N,Existence Category,int.vdt,-,-,:
nam=T,*,N,Name,char.vdt,-,-,:;
```

Column	Description	Value	Value Meaning	Applicable f_code for Each Attribute Value
id	Row Identifier	Sequential beginning with 1		
f_code	FACC Feature Code			
		AN060	Railroad Yard/Marshalling Yard	
		AN075	Railroad Turntable	
		AQ140	Vehicle Storage/Parking Area	
exs	Existence Category			
		0	Unknown	AN060, AN075, AQ140
		5	Under Construction	AN060, AN075, AQ140
		6	Abandoned/Disused	AN060, AN075, AQ140
		28	Operational	AN060, AN075, AQ140
nam	Name			
		VLT=0-length Null		AQ140
		Character text string		AN060, AN075
		"UNK" (no name present for feature)		AN060, AN075

TABLE E-135. Road Area Feature Table.

Thematic Layer: Transportation
Coverage Name: **trans**
Table Description: Road Area Feature Table
Table Name: **roada.aft**
dq Layer Number: 7

```
{Header length}L;
Road Area Feature Table;-;
id=I,1,P,Row Identifier,-,-,-,:
f_code=T,5,N,FACC Feature Code,char.vdt,f_code5.ati,-,:
acc=S,1,N,Accuracy Category,int.vdt,-,-,:
exs=S,1,N,Existence Category,int.vdt,-,-,:
loc=S,1,N,Location Category,int.vdt,-,-,:
ltn=S,1,N,Track/Lane Number,int.vdt,-,-,:
med=S,1,N,Median Category,int.vdt,-,-,:
nam=T,*,N,Name,char.vdt,-,-,:
rit=S,1,N,Road Interchange Type,int.vdt,-,-,:
rst=S,1,N,Road/Runway Surface Type,int.vdt,-,-,:
rtn=T,*,N,Route Number,char.vdt,-,-,:
tuc=S,1,N,Transportation Use Category,int.vdt,-,-,:
use=S,1,N,Usage,int.vdt,-,-,:
wd1=S,1,N,Minimum Traveled Way Width (decimeters),int.vdt,-,-,:
wtc=S,1,N,Weather Type Category,int.vdt,-,-,:;
```

Column	Description	Value	Value Meaning	Applicable f_code for Each Attribute Value
id	Row Identifier	Sequential beginning with 1		
f_code	FACC Feature Code			
		AP020	Interchange	
		AP030	Road	
acc	Accuracy Category			
		-32768	Null	AP020
		0	Unknown	AP030
		1	Accurate	AP030
		2	Approximate	AP030
exs	Existence Category			
		0	Unknown	AP020, AP030
		5	Under Construction	AP020, AP030
		6	Abandoned/Disused	AP020, AP030
		7	Destroyed	AP020, AP030
		28	Operational	AP020, AP030
		999	Other	AP020, AP030

TABLE E-135. Road Area Feature Table (Continued).

loc	Location Category			
		0	Unknown	AP020, AP030
		4	Below Surface/Submerged/ Underground	AP020, AP030
		8	On Ground Surface	AP020, AP030
		25	Suspended/Elevated Above Ground or Water Surface	AP020, AP030
ltn	Track/Lane Number			
		0	Unknown	AP020, AP030
		>0	Actual Value	AP020, AP030
med	Median Category			
		-32768	Null	AP020
		0	Unknown	AP030
		1	With Median	AP030
		2	Without Median	AP030
nam	Name			
		Character text string		AP020, AP030
		"UNK" (no name present for feature)		AP020, AP030
rit	Road Interchange Type			
		-32768	Null	AP030
		0	Unknown	AP020
		1	Cloverleaf	AP020
		2	Diamond	AP020
		3	Fork	AP020
		4	Rotary/Traffic Circle/ Roundabout	AP020
		5	Staggered Ramps	AP020
		6	Standard Ramps	AP020
		7	Symmetrical Ramps	AP020
		8	Trumpet	AP020
		9	Turban	AP020
		10	Wye	AP020
		999	Other	AP020
rst	Road/Runway Surface Type			
		0	Unknown	AP020, AP030
		1	Hard/Paved	AP020, AP030
		2	Loose/Unpaved	AP030
		3	Loose/Light	AP030
rtn	Route Number			
		Character text string		AP020, AP030
		"UNK" (no route number present for feature)		AP020, AP030

TABLE E-135. Road Area Feature Table (Continued).

tuc	Transportation Use Category			
		0	Unknown	AP020, AP030
		1	Both Road and Railroad	AP030
		4	Road	AP020, AP030
		6	Street	AP030
		7	Through Routes	AP020, AP030
		39	Caravan Route	AP030
use	Usage			
		0	Unknown	AP020, AP030
		26	Primary/1st Order	AP020, AP030
		30	Secondary/2nd Order	AP020, AP030
wd1	Minimum Traveled Way Width (decimeters)			
		0	Unknown	AP020, AP030
		>0	Actual Value	AP020, AP030
wtc	Weather Type Category			
		0	Unknown	AP020, AP030
		1	All Weather	AP020, AP030
		2	Fair/Dry Weather	AP030
		3	Winter Only	AP030
		4	All Weather (Limited Traffic Due to Weather)	AP030

TABLE E-136. Station Area Feature Table.

Thematic Layer: Transportation
Coverage Name: **trans**
Table Description: Station Area Feature Table
Table Name: **stationa.aft**
dq Layer Number: 7

```
{Header length}L;
Station Area Feature Table;-;
id=I,1,P,Row Identifier,-,-,-,:
f_code=T,5,N,FACC Feature Code,char.vdt,-,-,:
loc=S,1,N,Location Category,int.vdt,-,-,:
nam=T,*,N,Name,char.vdt,-,-,:
tuc=S,1,N,Transportation Use Category,int.vdt,-,-,:;
```

Column	Description	Value	Value Meaning	Applicable f_code for Each Attribute Value
id	Row Identifier	Sequential beginning with 1		
		f_code		FACC Feature Code
		AQ125	Station (Miscellaneous)	
loc	Location Category			
		0	Unknown	AQ125
		4	Below Surface/Submerged/ Underground	AQ125
		8	On Ground Surface	AQ125
		25	Suspended/Elevated Above Ground or Water Surface	AQ125
nam	Name			
		Character text string		AQ125
		"UNK" (no name present for feature)		AQ125
tuc	Transportation Use Category			
		0	Unknown	AQ125
		3	Railroad	AQ125
		14	Bus	AQ125
		40	Subway	AQ125

TABLE E-137. Transportation Text Feature Table.

Thematic Layer: Transportation
Coverage Name: **trans**
Table Description: Transportation Text Feature Table
Table Name: **transtxt.tft**
dq Layer Number: 5

```
{Header length}L;
Transportation Text Feature Table;-;
id=I,1,P,Row Identifier,-,-,-,:
f_code=T,5,N,FACC Feature Code,char.vdt,f_code1.tti,-,:
symbol_id=S,1,N,Symbol Identification,-,-,-,:
tile_id=S,1,N,Tile Reference ID,-,tile1_id.tti,-,:
txt_id=I,1,N,Text Primitive ID,-,txt1_id.tti,-,:;
```

Column	Description	Value	Value Meaning
id	Row Identifier	Sequential beginning with 1	
f_code	FACC Feature Code		
		ZD040	Named Location
		ZD045	Text Description
symbol_id	Symbol Identification (Refer to Symbol Related Attribute Table for selection of values)		

TABLE E-138. Transportation Feature Class Attribute Table.

Thematic Layer: Transportation
Coverage Name: **trans**
Table Description: Transportation Feature Class Attribute Table
Table Name: **fca**
dq Layer Number: 5

{Header length}L; Transportation Feature Class Attribute Table;-; id=I,1,P,Row Identifier,-,-,-,: fclass=T,8,U,Feature Class Name,-,-,-,: type=T,1,N,Feature Type,char.vdt,-,-,: descr=T,*,N,Description,-,-,-,:;

1	lthsp	P	Lighthouse Points
:	:	:	:
n	n	n	n

Column	Description	Value	Value Meaning	Applicable fclass for Each Attribute Value
id	Row Identifier	Sequential beginning with 1		
fclass	Feature Class Name			
		lthsp		
		misaerop		
		bridgec		
		ferryc		
		fordc		
		stationc		
		tunenexc		
		aerofacl		
		bridgel		
		ferryl		
		fordl		
		pierl		
		railrdl		
		rampl		
		roadl		
		trackl		
		traill		
		traml		
		aerofaca		
		bridgea		
		harbora		
		prkraila		
		roada		
		stationa		
		transtxt		

TABLE E-138. Transportation Feature Class Attribute Table (Continued).

type	Feature Type	P	Point/Node Feature	lthsp, misaerop, bridgec, ferryc, fordc, stationc, tunenexc
		L	Line Feature	aerofacl, bridgel, ferryl, fordl, pierl, railrdl, rampl, roadl, trackl, traill, traml
		A	Area Feature	aerofaca, bridgea, harbora, prkraila, roada, stationa
		T	Text Feature	transtxt

descr	Description	Lighthouse Points	lthsp
		Miscellaneous Aeronautical Points	misaerop
		Bridge Nodes	bridgec
		Ferry Crossing Nodes	ferryc
		Ford Nodes	fordc
		Station Nodes	stationc
		Tunnel Nodes	tunenexc
		Aircraft Facility Lines	aerofacl
		Bridge Lines	bridgel
		Ferry Crossing Lines	ferryl
		Ford Lines	fordl
		Pier Lines	pierl
		Railroad Lines	railrdl
		Ramp Lines	rampl
		Road Lines	roadl
		Cart Track Lines	trackl
		Trail Lines	traill
		Tram Lines	traml
		Aircraft Facility Areas	aerofaca
		Bridge Areas	bridgea
		Harbor Areas	harbora
		Parking/Rail Areas	prkraila
		Road Areas	roada
		Station Areas	stationa
		Transportation Coverage Text	transtxt

TABLE E-139. Transportation Character Value Description Table.

Thematic Layer: Transportation
Coverage Name: **trans**
Table Description: Transportation Character Value Description Table
Table Name: **char.vdt**
dq Layer Number: 7

{Header length}L;
Transportation Character Value Description Table;-;
id=I,1,P,Row Identifier,-,-,-,:
table=T,12,N,Name of the Feature Table,-,-,-,:
attribute=T,6,N,Column Name,-,-,-,:
value=T,5,N,Unique Value of Attribute,-,-,-,:
description=T,36,N,Description of Value,-,-,-,:;

1	lthsp.pft	f_code	BC050	Lighthouse
2	lthsp.pft	nam	UNK	No name present
3	misaerop.pft	f_code	AQ060	Control Tower
4	misaerop.pft	f_code	AQ110	Mooring Mast
5	misaerop.pft	f_code	GB005	Airport/Airfield
6	misaerop.pft	f_code	GB010	Airport Lighting
7	misaerop.pft	f_code	GB030	Helicopter Landing Pad
8	misaerop.pft	nam	UNK	No name present
9	dqpoint.pft	f_code	BC050	Lighthouse
10	dqpoint.pft	f_code	AQ060	Control Tower
11	dqpoint.pft	f_code	AQ110	Mooring Mast
12	dqpoint.pft	f_code	GB005	Airport/Airfield
13	dqpoint.pft	f_code	GB010	Airport Lighting
14	dqpoint.pft	f_code	GB030	Helicopter Landing Pad
15	dqpoint.pft	f_code	ZD045	Text Description
16	bridgec.pft	f_code	AQ040	Bridge/Overpass/Viaduct
17	bridgec.pft	nam	UNK	No name present
18	ferryc.pft	f_code	AQ070	Ferry Crossing
19	ferryc.pft	nam	UNK	No name present
20	fordc.pft	f_code	BH070	Ford
21	stationc.pft	f_code	AP040	Gate
22	stationc.pft	f_code	AQ125	Station (Miscellaneous)
23	stationc.pft	nam	UNK	No name present
24	tunenexc.pft	f_code	AQ090	Entrance/Exit
25	tunenexc.pft	nam	UNK	No name present
26	dqnode.pft	f_code	AQ040	Bridge/Overpass/Viaduct
27	dqnode.pft	f_code	AQ070	Ferry Crossing
28	dqnode.pft	f_code	BH070	Ford
29	dqnode.pft	f_code	AP040	Gate
30	dqnode.pft	f code	AQ125	Station (Miscellaneous)
31	dqnode.pft	f_code	AQ090	Entrance/Exit
32	dqnode.pft	f_code	ZD045	Text Description
33	aerofacl.lft	f_code	GB045	Overrun/Stopway
34	aerofacl.lft	f_code	GB050	Revetment (Airfield)
35	aerofacl.lft	f_code	GB055	Runway
36	aerofacl.lft	f_code	GB075	Taxiway

TABLE E-139. Transportation Character Value Description Table (Continued).

37	bridgel.lft	f_code	AQ040	Bridge/Overpass/Viaduct
38	bridgel.lft	f_code	AQ130	Tunnel
39	bridgel.lft	nam	UNK	No name present
40	ferryl.lft	f_code	AQ070	Ferry Crossing
41	ferryl.lft	nam	UNK	No name present
42	fordl.lft	f_code	BH070	Ford
43	pierl.lft	f_code	BB190	Pier/Wharf/Quay
44	railrdl.lft	f_code	AN010	Railroad
45	railrdl.lft	f_code	AN050	Railroad Siding/Railroad Spur
46	railrdl.lft	nam	UNK	No name present
47	rampl.lft	f_code	BB240	Slipway/Patent Slip
48	roadl.lft	f_code	AP020	Interchange
49	roadl.lft	f_code	AP030	Road
50	roadl.lft	nam	UNK	No name present
51	roadl.lft	rtn	UNK	No route number present
52	trackl.lft	f_code	AP010	Cart Track
53	traill.lft	f_code	AP050	Trail
54	traml.lft	f_code	AQ010	Aerial Cableway Lines/Ski Lift Lines
55	dqline.lft	f_code	GB045	Overrun/Stopway
56	dqline.lft	f_code	GB050	Revetment (Airfield)
57	dqline.lft	f_code	GB055	Runway
58	dqline.lft	f_code	GB075	Taxiway
59	dqline.lft	f_code	AQ040	Bridge/Overpass/Viaduct
60	dqline.lft	f_code	AQ130	Tunnel
61	dqline.lft	f_code	AQ070	Ferry Crossing
62	dqline.lft	f_code	BH070	Ford
63	dqline.lft	f_code	BB190	Pier/Wharf/Quay
64	dqline.lft	f_code	AN010	Railroad
65	dqline.lft	f_code	AN050	Railroad Siding/Railroad Spur
66	dqline.lft	f_code	BB240	Slipway/Patent Slip
67	dqline.lft	f_code	AP020	Interchange
68	dqline.lft	f_code	AP030	Road
69	dqline.lft	f_code	AP010	Cart Track
70	dqline.lft	f_code	AP050	Trail
71	dqline.lft	f_code	AQ010	Aerial Cableway Lines/Ski Lift Lines
72	dqline.lft	f_code	ZD045	Text Description
73	aerofaca.aft	f_code	GB005	Airport/Airfield
74	aerofaca.aft	f_code	GB015	Apron/Hardstand
75	aerofaca.aft	f_code	GB030	Helicopter Landing Pad
76	aerofaca.aft	f_code	GB035	Heliport
77	aerofaca.aft	f_code	GB045	Overrun/Stopway
78	aerofaca.aft	f_code	GB050	Revetment (Airfield)
79	aerofaca.aft	f_code	GB055	Runway
80	aerofaca.aft	f_code	GB075	Taxiway
81	aerofaca.aft	nam	UNK	No name present
82	bridgea.aft	f_code	AQ040	Bridge/Overpass/Viaduct
83	bridgea.aft	f_code	AQ130	Tunnel
84	bridgea.aft	nam	UNK	No name present
85	harbora.aft	f_code	BB090	Drydock

TABLE E-139. Transportation Character Value Description Table (Continued).

86	harbora.aft	f_code	BB190	Pier/Wharf/Quay
87	prkraila.aft	f_code	AN060	Railroad Yard/Marshalling Yard
88	prkraila.aft	f_code	AN075	Railroad Turntable
89	prkraila.aft	f_code	AQ140	Vehicle Storage/Parking Area
90	prkraila.aft	nam	UNK	No name present
91	roada.aft	f_code	AP020	Interchange
92	roada.aft	f_code	AP030	Road
93	roada.aft	nam	UNK	No name present
94	roada.aft	rtn	UNK	No route number present
95	stationa.aft	f_code	AQ125	Station (Miscellaneous)
96	stationa.aft	nam	UNK	No name present
97	dqarea.aft	f_code	GB005	Airport/Airfield
98	dqarea.aft	f_code	GB015	Apron/Hardstand
99	dqarea.aft	f_code	GB030	Helicopter Landing Pad
100	dqarea.aft	f_code	GB035	Heliport
101	dqarea.aft	f_code	GB045	Overrun/Stopway
102	dqarea.aft	f_code	GB050	Revetment (Airfield)
103	dqarea.aft	f_code	GB055	Runway
104	dqarea.aft	f_code	GB075	Taxiway
105	dqarea.aft	f_code	AQ040	Bridge/Overpass/Viaduct
106	dqarea.aft	f_code	AQ130	Tunnel
107	dqarea.aft	f_code	BB090	Drydock
108	dqarea.aft	f_code	BB190	Pier/Wharf/Quay
109	dqarea.aft	f_code	AN060	Railroad Yard/Marshalling Yard
110	dqarea.aft	f_code	AN075	Railroad Turntable
111	dqarea.aft	f_code	AQ140	Vehicle Storage/Parking Area
112	dqarea.aft	f_code	AP020	Interchange
113	dqarea.aft	f_code	AP030	Road
114	dqarea.aft	f_code	AQ125	Station (Miscellaneous)
115	dqarea.aft	f_code	ZD045	Text Description
116	transtxt.tft	f_code	ZD040	Named Location
117	transtxt.tft	f_code	ZD045	Text Description
118	fca	type	A	Area Feature
119	fca	type	L	Line Feature
120	fca	type	P	Point/Node Feature
121	fca	type	T	Text Feature

TABLE E-140. Transportation Integer Value Description Table.

Thematic Layer: Transportation
Coverage Name: **trans**
Table Description: Transportation Integer Value Description Table
Table Name: **int.vdt**
dq Layer Number: 7

```
{Header length}L;
Transportation Integer Value Description Table;-;
id=I,1,P,Row Identifier,-,-,-,:
table=T,12,N,Name of the Feature Table,-,-,-,:
attribute=T,3,N,Column Name,-,-,-,:
value=S,1,N,Unique Value of Attribute,-,-,-,:
description=T,51,N,Description of Value,-,-,-,:;
```

1	lthsp.pft	atn	0	Unknown
2	lthsp.pft	atn	1	Marked
3	lthsp.pft	atn	2	Unmarked
4	lthsp.pft	atn	3	Lit
5	lthsp.pft	atn	4	Unlit
6	lthsp.pft	atn	999	Other
7	lthsp.pft	exs	0	Unknown
8	lthsp.pft	exs	5	Under Construction
9	lthsp.pft	exs	6	Abandoned/Disused
10	lthsp.pft	lcn	0	Unknown
11	misaerop.pft	exs	0	Unknown
12	misaerop.pft	exs	6	Abandoned/Disused
13	misaerop.pft	exs	7	Destroyed
14	misaerop.pft	exs	28	Operational
15	misaerop.pft	hgt	0	Unknown
16	misaerop.pft	lfa	0	Unknown
17	misaerop.pft	lfa	10	Rotating Beacon
18	misaerop.pft	lfa	26	Strobe
19	misaerop.pft	lfa	72	Identification Beacon
20	misaerop.pft	mcc	0	Unknown
21	misaerop.pft	mcc	8	Boulders
22	misaerop.pft	mcc	9	Brick
23	misaerop.pft	mcc	21	Concrete
24	misaerop.pft	mcc	30	Earthen
25	misaerop.pft	mcc	62	Masonry (Brick/Stone)
26	misaerop.pft	mcc	83	Reinforced Concrete
27	misaerop.pft	mcc	117	Wood
28	misaerop.pft	tuc	0	Unknown
29	misaerop.pft	tuc	3	Railroad
30	misaerop.pft	tuc	12	Marine
31	misaerop.pft	tuc	13	Air
32	misaerop.pft	use	0	Unknown
33	misaerop.pft	use	8	Military
34	misaerop.pft	use	22	Joint Military/Civilian
35	misaerop.pft	use	49	Civilian/Public
36	misaerop.pft	use	998	Sea-Plane landing area

TABLE E-140. Transportation Integer Value Description Table (Continued).

37	misaerop.pft	zv2	9999	Unknown
38	bridgec.pft	bsc	0	Unknown
39	bridgec.pft	bsc	1	Arch (assume open spandrel)
40	bridgec.pft	bsc	2	Cantilever
41	bridgec.pft	bsc	3	Deck
42	bridgec.pft	bsc	4	Drawbridge
43	bridgec.pft	bsc	5	Floating Bridge/Pontoon
44	bridgec.pft	bsc	6	Girder
45	bridgec.pft	bsc	7	Tower Suspension
46	bridgec.pft	bsc	8	Truss
47	bridgec.pft	bsc	9	Suspension
48	bridgec.pft	bsc	10	Swing
49	bridgec.pft	bsc	11	Lift
50	bridgec.pft	bsc	12	Transporter
51	bridgec.pft	bsc	13	Bascule
52	bridgec.pft	bsc	14	Unspecified Fixed
53	bridgec.pft	bsc	15	Slab
54	bridgec.pft	bsc	16	Stringer (Beam)
55	bridgec.pft	bsc	18	Retractable
56	bridgec.pft	bsc	999	Other
57	bridgec.pft	bsm	0	Unknown
58	bridgec.pft	bsm	1	Moveable Span
59	bridgec.pft	bsm	2	Fixed Span
60	bridgec.pft	exs	0	Unknown
61	bridgec.pft	exs	5	Under Construction
62	bridgec.pft	exs	6	Abandoned/Disused
63	bridgec.pft	exs	7	Destroyed
64	bridgec.pft	exs	28	Operational
65	bridgec.pft	exs	999	Other
66	bridgec.pft	lc1	0	Unknown
67	bridgec.pft	lc2	0	Unknown
68	bridgec.pft	lc3	0	Unknown
69	bridgec.pft	lc4	0	Unknown
70	bridgec.pft	len	0	Unknown
71	bridgec.pft	mcc	0	Unknown
72	bridgec.pft	mcc	21	Concrete
73	bridgec.pft	mcc	62	Masonry (Brick/Stone)
74	bridgec.pft	mcc	77	Prestressed Concrete
75	bridgec.pft	mcc	83	Reinforced Concrete
76	bridgec.pft	mcc	107	Steel
77	bridgec.pft	mcc	117	Wood
78	bridgec.pft	mcc	999	Other
79	bridgec.pft	tuc	0	Unknown
80	bridgec.pft	tuc	1	Both Road and Railroad
81	bridgec.pft	tuc	3	Railroad
82	bridgec.pft	tuc	4	Road
83	bridgec.pft	tuc	17	Pedestrian
84	bridgec.pft	wd1	0	Unknown
85	ferryc.pft	exs	0	Unknown

TABLE E-140. Transportation Integer Value Description Table (Continued).

86	ferryc.pft	exs	28	Operational
87	ferryc.pft	fcl	0	Unknown
88	ferryc.pft	fer	0	Unknown
89	ferryc.pft	fer	1	With cables/chains
90	ferryc.pft	fer	2	Without cables/chains
91	ferryc.pft	tuc	0	Unknown
92	ferryc.pft	tuc	1	Both Road and Railroad
93	ferryc.pft	tuc	3	Railroad
94	ferryc.pft	tuc	4	Road
95	ferryc.pft	tuc	17	Pedestrian
96	fordc.pft	len	0	Unknown
97	stationc.pft	gtc	1	Tollgate
98	stationc.pft	gtc	99	Other
99	stationc.pft	loc	0	Unknown
100	stationc.pft	loc	4	Below Surface/Submerged/Underground
101	stationc.pft	loc	8	On Ground Surface
102	stationc.pft	loc	25	Suspended/Elevated Above Ground or Water Surface
103	stationc.pft	tuc	0	Unknown
104	stationc.pft	tuc	3	Railroad
105	stationc.pft	tuc	14	Bus
106	stationc.pft	tuc	40	Subway
107	tunenexc.pft	ohc	0	Unknown
108	tunenexc.pft	ohc	999	Not Applicable
109	tunenexc.pft	tuc	0	Unknown
110	tunenexc.pft	tuc	1	Both Road and Railroad
111	tunenexc.pft	tuc	3	Railroad
112	tunenexc.pft	tuc	4	Road
113	tunenexc.pft	tuc	17	Pedestrian
114	tunenexc.pft	wid	0	Unknown
115	aerofacl.lft	exs	0	Unknown
116	aerofacl.lft	exs	5	Under Construction
117	aerofacl.lft	exs	6	Abandoned/Disused
118	aerofacl.lft	exs	7	Destroyed
119	aerofacl.lft	exs	28	Operational
120	aerofacl.lft	mcc	0	Unknown
121	aerofacl.lft	mcc	8	Boulders
122	aerofacl.lft	mcc	9	Brick
123	aerofacl.lft	mcc	21	Concrete
124	aerofacl.lft	mcc	30	Earthen
125	aerofacl.lft	mcc	62	Masonry (Brick/Stone)
126	aerofacl.lft	mcc	83	Reinforced Concrete
127	aerofacl.lft	mcc	117	Wood
128	aerofacl.lft	rst	0	Unknown
129	aerofacl.lft	rst	5	Grass/Sod (soft)
130	aerofacl.lft	rst	7	Permanent
131	aerofacl.lft	rst	8	Temporary
132	aerofacl.lft	zv2	9999	Unknown
133	bridgel.lft	bcc	0	Unknown

TABLE E-140. Transportation Integer Value Description Table (Continued).

134	bridgel.lft	bcc	1	Easy
135	bridgel.lft	bcc	2	Difficult
136	bridgel.lft	bcc	3	Impossible
137	bridgel.lft	bsc	0	Unknown
138	bridgel.lft	bsc	1	Arch (assume open spandrel)
139	bridgel.lft	bsc	2	Cantilever
140	bridgel.lft	bsc	3	Deck
141	bridgel.lft	bsc	4	Drawbridge
142	bridgel.lft	bsc	5	Floating Bridge/Pontoon
143	bridgel.lft	bsc	6	Girder
144	bridgel.lft	bsc	7	Tower Suspension
145	bridgel.lft	bsc	8	Truss
146	bridgel.lft	bsc	9	Suspension
147	bridgel.lft	bsc	10	Swing
148	bridgel.lft	bsc	11	Lift
149	bridgel.lft	bsc	12	Transporter
150	bridgel.lft	bsc	13	Bascule
151	bridgel.lft	bsc	14	Unspecified Fixed
152	bridgel.lft	bsc	15	Slab
153	bridgel.lft	bsc	16	Stringer (Beam)
154	bridgel.lft	bsc	18	Retractable
155	bridgel.lft	bsc	999	Other
156	bridgel.lft	bsm	0	Unknown
157	bridgel.lft	bsm	1	Moveable Span
158	bridgel.lft	bsm	2	Fixed Span
159	bridgel.lft	exs	0	Unknown
160	bridgel.lft	exs	5	Under Construction
161	bridgel.lft	exs	6	Abandoned/Disused
162	bridgel.lft	exs	7	Destroyed
163	bridgel.lft	exs	28	Operational
164	bridgel.lft	exs	999	Other
165	bridgel.lft	lc1	0	Unknown
166	bridgel.lft	lc2	0	Unknown
167	bridgel.lft	lc3	0	Unknown
168	bridgel.lft	lc4	0	Unknown
169	bridgel.lft	mcc	0	Unknown
170	bridgel.lft	mcc	21	Concrete
171	bridgel.lft	mcc	62	Masonry (Brick/Stone)
172	bridgel.lft	mcc	77	Prestressed Concrete
173	bridgel.lft	mcc	83	Reinforced Concrete
174	bridgel.lft	mcc	107	Steel
175	bridgel.lft	mcc	117	Wood
176	bridgel.lft	mcc	999	Other
177	bridgel.lft	tuc	0	Unknown
178	bridgel.lft	tuc	1	Both Road and Railroad
179	bridgel.lft	tuc	3	Railroad
180	bridgel.lft	tuc	4	Road
181	bridgel.lft	tuc	17	Pedestrian
182	bridgel.lft	wd1	0	Unknown

TABLE E-140. Transportation Integer Value Description Table (Continued).

183	ferryl.lft	exs	0	Unknown
184	ferryl.lft	exs	28	Operational
185	ferryl.lft	fcl	0	Unknown
186	ferryl.lft	fer	0	Unknown
187	ferryl.lft	fer	1	With cables/chains
188	ferryl.lft	fer	2	Without cables/chains
189	ferryl.lft	tuc	0	Unknown
190	ferryl.lft	tuc	1	Both Road and Railroad
191	ferryl.lft	tuc	3	Railroad
192	ferryl.lft	tuc	4	Road
193	ferryl.lft	tuc	17	Pedestrian
194	pierl.lft	use	0	Unknown
195	pierl.lft	use	8	Military
196	pierl.lft	use	22	Joint Military/Civilian
197	pierl.lft	use	49	Civilian/Public
198	pierl.lft	wid	0	Unknown
199	railrdl.lft	acc	0	Unknown
200	railrdl.lft	acc	1	Accurate
201	railrdl.lft	acc	2	Approximate
202	railrdl.lft	exs	0	Unknown
203	railrdl.lft	exs	5	Under Construction
204	railrdl.lft	exs	6	Abandoned/Disused
205	railrdl.lft	exs	7	Destroyed
206	railrdl.lft	exs	8	Dismantled
207	railrdl.lft	exs	28	Operational
208	railrdl.lft	gaw	0	Unknown
209	railrdl.lft	loc	0	Unknown
210	railrdl.lft	loc	4	Below Surface/Submerged/Underground
211	railrdl.lft	loc	8	On Ground Surface
212	railrdl.lft	loc	25	Suspended/Elevated Above Ground or Water Surface
213	railrdl.lft	ltn	0	Unknown
214	railrdl.lft	rgc	0	Unknown
215	railrdl.lft	rgc	1	Broad
216	railrdl.lft	rgc	2	Narrow
217	railrdl.lft	rgc	3	Normal (Standard)
218	railrdl.lft	rra	0	Unknown
219	railrdl.lft	rra	1	Electrified Track
220	railrdl.lft	rra	3	Overhead Electrified
221	railrdl.lft	rra	4	Non-electrified
222	railrdl.lft	rrc	0	Unknown
223	railrdl.lft	rrc	2	Car-Line
224	railrdl.lft	rrc	3	Monorail
225	railrdl.lft	rrc	6	Subway
226	railrdl.lft	rrc	8	Logging
227	railrdl.lft	rrc	13	Marine Railroad
228	railrdl.lft	rrc	14	Tramway
229	railrdl.lft	rrc	16	Main Line
230	railrdl.lft	rrc	17	Branch Line

TABLE E-140. Transportation Integer Value Description Table (Continued).

231	railrdl.lft	rrc	21	Railroad in Road
232	railrdl.lft	rsa	1	Spur
233	railrdl.lft	rsa	2	Siding
234	railrdl.lft	rsa	3	Passing
235	rampl.lft	vrr	0	Unknown
236	rampl.lft	vrr	1	Above Surface/Does not cover (At High Water)
237	rampl.lft	wid	0	Unknown
238	roadl.lft	acc	0	Unknown
239	roadl.lft	acc	1	Accurate
240	roadl.lft	acc	2	Approximate
241	roadl.lft	exs	0	Unknown
242	roadl.lft	exs	5	Under Construction
243	roadl.lft	exs	6	Abandoned/Disused
244	roadl.lft	exs	7	Destroyed
245	roadl.lft	exs	28	Operational
246	roadl.lft	exs	999	Other
247	roadl.lft	loc	0	Unknown
248	roadl.lft	loc	4	Below Surface/Submerged/Underground
249	roadl.lft	loc	8	On Ground Surface
250	roadl.lft	loc	25	Suspended/Elevated Above Ground or Water Surface
251	roadl.lft	ltn	0	Unknown
252	roadl.lft	med	0	Unknown
253	roadl.lft	med	1	With Median
254	roadl.lft	med	2	Without Median
255	roadl.lft	rit	0	Unknown
256	roadl.lft	rit	1	Cloverleaf
257	roadl.lft	rit	2	Diamond
258	roadl.lft	rit	3	Fork
259	roadl.lft	rit	4	Rotary/Traffic Circle/Roundabout
260	roadl.lft	rit	5	Staggered Ramps
261	roadl.lft	rit	6	Standard Ramps
262	roadl.lft	rit	7	Symmetrical Ramps
263	roadl.lft	rit	8	Trumpet
264	roadl.lft	rit	9	Turban
265	roadl.lft	rit	10	Wye
266	roadl.lft	rit	999	Other
267	roadl.lft	rst	0	Unknown
268	roadl.lft	rst	1	Hard/Paved
269	roadl.lft	rst	2	Loose/Unpaved
270	roadl.lft	rst	3	Loose/Light
271	roadl.lft	tuc	0	Unknown
272	roadl.lft	tuc	1	Both Road and Railroad
273	roadl.lft	tuc	4	Road
274	roadl.lft	tuc	6	Street
275	roadl.lft	tuc	7	Through Routes
276	roadl.lft	tuc	39	Caravan Route
277	roadl.lft	use	0	Unknown

TABLE E-140. Transportation Integer Value Description Table (Continued).

278	roadl.lft	use	26	Primary/1st Order
279	roadl.lft	use	30	Secondary/2nd Order
280	roadl.lft	wd1	0	Unknown
281	roadl.lft	wtc	0	Unknown
282	roadl.lft	wtc	1	All Weather
283	roadl.lft	wtc	2	Fair/Dry Weather
284	roadl.lft	wtc	3	Winter Only
285	roadl.lft	wtc	4	All Weather (Limited Traffic Due to Weather)
286	trackl.lft	wtc	0	Unknown
287	trackl.lft	wtc	2	Fair/Dry Weather
288	trackl.lft	wtc	3	Winter Only
289	traill.lft	wtc	0	Unknown
290	traill.lft	wtc	2	Fair/Dry Weather
291	traill.lft	wtc	3	Winter Only
292	traml.lft	use	0	Unknown
293	traml.lft	use	120	Recreational
294	traml.lft	use	130	Transportation
295	traml.lft	use	999	Other
296	aerofaca.aft	ara	0	Unknown
297	aerofaca.aft	cod	0	Unknown
298	aerofaca.aft	cod	1	Limits and Information Known
299	aerofaca.aft	exs	0	Unknown
300	aerofaca.aft	exs	5	Under Construction
301	aerofaca.aft	exs	6	Abandoned/Disused
302	aerofaca.aft	exs	7	Destroyed
303	aerofaca.aft	exs	28	Operational
304	aerofaca.aft	mcc	0	Unknown
305	aerofaca.aft	mcc	8	Boulders
306	aerofaca.aft	mcc	9	Brick
307	aerofaca.aft	mcc	21	Concrete
308	aerofaca.aft	mcc	30	Earthen
309	aerofaca.aft	mcc	62	Masonry (Brick/Stone)
310	aerofaca.aft	mcc	83	Reinforced Concrete
311	aerofaca.aft	mcc	117	Wood
312	aerofaca.aft	rst	0	Unknown
313	aerofaca.aft	rst	5	Grass/Sod (soft)
314	aerofaca.aft	rst	7	Permanent
315	aerofaca.aft	rst	8	Temporary
316	aerofaca.aft	use	0	Unknown
317	aerofaca.aft	use	8	Military
318	aerofaca.aft	use	22	Joint Military/Civilian
319	aerofaca.aft	use	49	Civilian/Public
320	aerofaca.aft	use	998	Sea-Plane landing area
321	aerofaca.aft	zv2	9999	Unknown
322	bridgea.aft	bcc	0	Unknown
323	bridgea.aft	bcc	1	Easy
324	bridgea.aft	bcc	2	Difficult
325	bridgea.aft	bcc	3	Impossible

TABLE E-140. Transportation Integer Value Description Table (Continued).

326	bridgea.aft	bsc	0	Unknown
327	bridgea.aft	bsc	1	Arch (assume open spandrel)
328	bridgea.aft	bsc	2	Cantilever
329	bridgea.aft	bsc	3	Deck
330	bridgea.aft	bsc	4	Drawbridge
331	bridgea.aft	bsc	5	Floating Bridge/Pontoon
332	bridgea.aft	bsc	6	Girder
333	bridgea.aft	bsc	7	Tower Suspension
334	bridgea.aft	bsc	8	Truss
335	bridgea.aft	bsc	9	Suspension
336	bridgea.aft	bsc	10	Swing
337	bridgea.aft	bsc	11	Lift
338	bridgea.aft	bsc	12	Transporter
339	bridgea.aft	bsc	13	Bascule
340	bridgea.aft	bsc	14	Unspecified Fixed
341	bridgea.aft	bsc	15	Slab
342	bridgea.aft	bsc	16	Stringer (Beam)
343	bridgea.aft	bsc	18	Retractable
344	bridgea.aft	bsc	999	Other
345	bridgea.aft	bsm	0	Unknown
346	bridgea.aft	bsm	1	Moveable Span
347	bridgea.aft	bsm	2	Fixed Span
348	bridgea.aft	exs	0	Unknown
349	bridgea.aft	exs	5	Under Construction
350	bridgea.aft	exs	6	Abandoned/Disused
351	bridgea.aft	exs	7	Destroyed
352	bridgea.aft	exs	28	Operational
353	bridgea.aft	exs	999	Other
354	bridgea.aft	lc1	0	Unknown
355	bridgea.aft	lc2	0	Unknown
356	bridgea.aft	lc3	0	Unknown
357	bridgea.aft	lc4	0	Unknown
358	bridgea.aft	mcc	21	Concrete
359	bridgea.aft	mcc	62	Masonry (Brick/Stone)
360	bridgea.aft	mcc	77	Prestressed Concrete
361	bridgea.aft	mcc	83	Reinforced Concrete
362	bridgea.aft	mcc	107	Steel
363	bridgea.aft	mcc	117	Wood
364	bridgea.aft	mcc	999	Other
365	bridgea.aft	tuc	0	Unknown
366	bridgea.aft	tuc	1	Both Road and Railroad
367	bridgea.aft	tuc	3	Railroad
368	bridgea.aft	tuc	4	Road
369	bridgea.aft	tuc	17	Pedestrian
370	bridgea.aft	wd1	0	Unknown
371	harbora.aft	loc	0	Unknown
372	harbora.aft	loc	15	On Water Surface/Floating
373	harbora.aft	loc	30	Non-Floating
374	harbora.aft	use	0	Unknown

TABLE E-140. Transportation Integer Value Description Table (Continued).

375	harbora.aft	use	8	Military
376	harbora.aft	use	22	Joint Military/Civilian
377	harbora.aft	use	49	Civilian/Public
378	prkraila.aft	exs	0	Unknown
379	prkraila.aft	exs	5	Under Construction
380	prkraila.aft	exs	6	Abandoned/Disused
381	prkraila.aft	exs	28	Operational
382	roada.aft	acc	0	Unknown
383	roada.aft	acc	1	Accurate
384	roada.aft	acc	2	Approximate
385	roada.aft	exs	0	Unknown
386	roada.aft	exs	5	Under Construction
387	roada.aft	exs	6	Abandoned/Disused
388	roada.aft	exs	7	Destroyed
389	roada.aft	exs	28	Operational
390	roada.aft	exs	999	Other
391	roada.aft	loc	0	Unknown
392	roada.aft	loc	4	Below Surface/Submerged/Underground
393	roada.aft	loc	8	On Ground Surface
394	roada.aft	loc	25	Suspended/Elevated Above Ground or Water Surface
395	roada.aft	ltn	0	Unknown
396	roada.aft	med	0	Unknown
397	roada.aft	med	1	With Median
398	roada.aft	med	2	Without Median
399	roada.aft	rit	0	Unknown
400	roada.aft	rit	1	Cloverleaf
401	roada.aft	rit	2	Diamond
402	roada.aft	rit	3	Fork
403	roada.aft	rit	4	Rotary/Traffic Circle/Roundabout
404	roada.aft	rit	5	Staggered Ramps
405	roada.aft	rit	6	Standard Ramps
406	roada.aft	rit	7	Symmetrical Ramps
407	roada.aft	rit	8	Trumpet
408	roada.aft	rit	9	Turban
409	roada.aft	rit	10	Wye
410	roada.aft	rit	999	Other
411	roada.aft	rst	0	Unknown
412	roada.aft	rst	1	Hard/Paved
413	roada.aft	rst	2	Loose/Unpaved
414	roada.aft	rst	3	Loose/Light
415	roada.aft	tuc	0	Unknown
416	roada.aft	tuc	1	Both Road and Railroad
417	roada.aft	tuc	4	Road
418	roada.aft	tuc	6	Street
419	roada.aft	tuc	7	Through Routes
420	roada.aft	tuc	39	Caravan Route
421	roada.aft	use	0	Unknown
422	roada.aft	use	26	Primary/1st Order

TABLE E-140. Transportation Integer Value Description Table (Continued).

423	roada.aft	use	30	Secondary/2nd Order
424	roada.aft	wtc	0	Unknown
425	roada.aft	wtc	1	All Weather
426	roada.aft	wtc	2	Fair/Dry Weather
427	roada.aft	wtc	3	Winter Only
428	roada.aft	wtc	4	All Weather (Limited Traffic Due to Weather)
429	roada.aft	wd1	0	Unknown
430	stationa.aft	loc	0	Unknown
431	stationa.aft	loc	4	Below Surface/Submerged/Underground
432	stationa.aft	loc	8	On Ground Surface
433	stationa.aft	loc	25	Suspended/Elevated Above Ground or Water Surface
434	stationa.aft	tuc	0	Unknown
435	stationa.aft	tuc	3	Railroad
436	stationa.aft	tuc	14	Bus
437	stationa.aft	tuc	40	Subway
438	symbol.rat	fon	1	Machine Default
439	symbol.rat	sty	1	Kern
440	symbol.rat	sty	2	Proportional
441	symbol.rat	sty	3	Constant
442	symbol.rat	col	1	Black
443	symbol.rat	col	4	Blue
444	symbol.rat	col	9	Red-Brown
445	symbol.rat	col	12	Magenta

E.3.10 Utilities Coverage

TABLE E-141. Content and format for Utilities Coverage Feature Class Schema Table.

Thematic Layer: Utilities
Coverage Name: **util**
Table Description: Utilities Feature Class Schema Table
Table Name: **fcs**
dq Layer Number: 8

```
{Header length}L;
Utilities Feature Class Schema Table;-;
id=I,1,P,Row Identifier,-,-,-,:
feature_class=T,8,N,Name of Feature Class,-,-,-,:
table1=T,12,N,First Table,-,-,-,:
table1_key=T,16,N,Column Name in First Table,-,-,-,:
table2=T,12,N,Second Table,-,-,-,:
table2_key=T,16,N,Column Name in Second Table,-,-,-,:;
```

1	commp	commp.pft	end_id	end	id
2	commp	end	id	commp.pft	end_id
3	pumpingp	pumpingp.pft	end_id	end	id
4	pumpingp	end	id	pumpingp.pft	end_id
5	translnc	translnc.pft	cnd_id	cnd	id
6	translnc	cnd	id	translnc.pft	cnd_id
7	pipel	pipel.lft	id	pipel.ljt	pipel.lft_id
8	pipel	pipel.ljt	edg_id	edg	id
9	pipel	edg	id	pipel.ljt	edg_id
10	pipel	pipel.ljt	pipel.lft_id	pipel.lft	id
11	powerl	powerl.lft	id	powerl.ljt	powerl.lft_id
12	powerl	powerl.ljt	edg_id	edg	id
13	powerl	edg	id	powerl.ljt	edg_id
14	powerl	powerl.ljt	powerl.lft_id	powerl.lft	id
15	telel	telel.lft	id	telel.ljt	telel.lft_id
16	telel	telel.ljt	edg_id	edg	id
17	telel	edg	id	telel.ljt	edg_id
18	telel	telel.ljt	telel.lft_id	telel.lft	id
19	comma	comma.aft	id	comma.ajt	comma.aft_id
20	comma	comma.ajt	fac_id	fac	id
21	comma	fac	id	comma.ajt	fac_id
22	comma	comma.ajt	comma.aft_id	comma.aft	id
23	powrutla	powrutla.aft	id	powrutla.ajt	powrutla.aft_id
24	powrutla	powrutla.ajt	fac_id	fac	id
25	powrutla	fac	id	powrutla.ajt	fac_id
26	powrutla	powrutla.ajt	powrutla.aft_id	powrutla.aft	id
27	pumpinga	pumpinga.aft	id	pumpinga.ajt	pumpinga.aft_id
28	pumpinga	pumpinga.ajt	fac_id	fac	id
29	pumpinga	fac	id	pumpinga.ajt	fac_id
30	pumpinga	pumpinga.ajt	pumpinga.aft_id	pumpinga.aft	id
31	substata	substata.aft	id	substata.ajt	substata.aft_id
32	substata	substata.ajt	fac_id	fac	id

TABLE E-141. Content and format for Utilities Coverage Feature Class Schema Table (Continued).

33	substata	Fac	id	substata.ajt	fac_id
34	substata	substata.ajt	substata.aft_id	substata.aft	id
35	dqpoint	dqpoint.pft	end_id	end	id
36	dqpoint	end	id	dqpoint.pft	end_id
37	dqpoint	dqpoint.pft	dqdescr_id	dqdescr.rat	id
38	dqnode	dqnode.pft	cnd_id	cnd	id
39	dqnode	cnd	id	dqnode.pft	cnd_id
40	dqnode	dqnode.pft	dqdescr_id	dqdescr.rat	id
41	dqline	dqline.lft	id	dqline.ljt	dqline.lft_id
42	dqline	dqline.ljt	edg_id	edg	id
43	dqline	edg	id	dqline.ljt	edg_id
44	dqline	dqline.ljt	dqline.lft_id	dqline.lft	id
45	dqline	dqline.lft	dqdescr_id	dqdescr.rat	id
46	dqarea	dqarea.aft	id	dqarea.ajt	dqarea.aft_id
47	dqarea	dqarea.ajt	fac_id	fac	id
48	dqarea	fac	id	dqarea.ajt	fac_id
49	dqarea	dqarea.ajt	dqarea.aft_id	dqarea.aft	id
50	dqarea	dqarea.aft	dqdescr_id	dqdescr.rat	id
51	dqtext	dqtext.tft	txt_id	txt	id
52	dqtext	txt	id	dqtext.tft	txt_id
53	utiltxt	utiltxt.tft	txt_id	txt	id
54	utiltxt	txt	id	utiltxt.tft	txt_id
55	utiltxt	utiltxt.tft	symbol_id	symbol.rat	symbol_id

TABLE E-142. Communication Point Feature Table.

Thematic Layer: Utilities
Coverage Name: **util**
Table Description: Communication Point Feature Table
Table Name: **commp.pft**
dq Layer Number: 8

```
{Header length}L;
Communication Point Feature Table;-;
id=I,1,P,Row Identifier,-,-,-,:
f_code=T,5,N,FACC Feature Code,char.vdt,f_code1.pti,-,:
ara=S,1,N,Area Coverage Attribute (sq. meters),int.vdt,-,-,:
arh=S,1,N,Area Coverage Attribute Hectares,-,-,-,:
hgt=S,1,N,Height Above Surface Level (meters),int.vdt,-,-,:
idn=T,*,N,Identification Number,char.vdt,-,-,:
len=S,1,N,Length (meters),int.vdt,-,-,:
nam=T,*,N,Name,char.vdt,-,-,:
nst=S,1,N,Navigation System Types,int.vdt,-,-,:
use=S,1,N,Usage,int.vdt,-,-,:
tile_id=S,1,N,Tile Reference ID,-,tile1_id.pti,-,:
end_id=I,1,N,Entity Node Primitive ID,-,end1_id.pti,-,:;
```

Column	**Description**	**Value**	**Value Meaning**	**Applicable f_code for Each Attribute Value**
id	Row Identifier	Sequential beginning with 1		
f_code	FACC Feature Code			
		AT010	Disk/Dish	
		AT050	Communication Building	
		AT080	Communication Tower	
ara	Area Coverage Attribute (sq. meters)			
		-32768	Null	AT010, AT050 **arh**>0, AT080
		0	Unknown	AT050 **arh**=-32768
		>0	Actual Value	AT050 **arh**=-32768
arh	Area Coverage Attribute Hectares			
		-32768	Null	AT010, AT050 **ara**>=0, AT080
		>0	Actual Value	AT050 **ara**=-32768
hgt	Height Above Surface Level (meters)			
		-32768	Null	AT050
		0	Unknown	AT010, AT080
		>0	Actual Value	AT010, AT080

TABLE E-142. Communication Point Feature Table (Continued).

idn	Identification Number			
		VLT=0-length	Null	AT010, AT080
		0	Unknown	AT050
		Any		AT050
len	Length (meters)			
		-32768	Null	AT010, AT080
		0	Unknown	AT050
		>0	Actual Value	AT050
nam	Name			
		VLT=0-length	Null	AT010
		Character text string		AT050, AT080
		"UNK" (no name present for feature)		AT050, AT080
nst	Navigation System Types			
		-32768	Null	AT010
		0	Unknown	AT050, AT080
		12	Radio	AT050, AT080
		13	Radio Telephone	AT050
		15	TV	AT050, AT080
		16	Microwave	AT050, AT080
		33	Radio Telegraph	AT050, AT080
use	Usage			
		0	Unknown	AT010, AT050, AT080
		4	National	AT010, AT050, AT080
		5	State	AT010, AT050, AT080
		8	Military	AT010, AT050, AT080
		22	Joint Military/Civilian	AT010, AT050, AT080
		49	Civilian/Public	AT010, AT050, AT080

TABLE E-143. Pumping Point Feature Table.

Thematic Layer: Utilities
Coverage Name: **util**
Table Description: Pumping Point Feature Table
Table Name: **pumpingp.pft**
dq Layer Number: 8

```
{Header length}L;
Pumping Point Feature Table;-;
id=I,1,P,Row Identifier,-,-,-,:
f_code=T,5,N,FACC Feature Code,char.vdt,-,-,:
idn=T,*,N,Identification Number,char.vdt,-,-,:
len=S,1,N,Length (meters),int.vdt,-,-,:
pro=S,1,N,Product Category,int.vdt,-,-,:
wid=S,1,N,Width (meters),int.vdt,-,-,:
tile_id=S,1,N,Tile Reference ID,-,tile2_id.pti,-,:
end_id=I,1,N,Entity Node Primitive ID,-,end2_id.pti,-,:;
```

Column	Description	Value	Value Meaning	Applicable f_code for Each Attribute Value
id	Row Identifier	Sequential beginning with 1		
f_code	FACC Feature Code			
		AQ116	Pumping Station	
idn	Identification Number			
		0	Unknown	AQ116
		Any		AQ116
len	Length (meters)			
		0	Unknown	AQ116
		>0	Actual Value	AQ116
pro	Product Category			
		0	Unknown	AQ116
		38	Gas	AQ116
		67	Oil	AQ116
		116	Water	AQ116
		999	Other	AQ116
wid	Width (meters)			
		0	Unknown	AQ116
		>0	Actual Value	AQ116

TABLE E-144. Transmission Line Node Feature Table.

Thematic Layer: Utilities
Coverage Name: **util**
Table Description: Transmission Line Node Feature Table
Table Name: **translnc.pft**
dq Layer Number: 8

```
{Header length}L;
Transmission Line Node Feature Table;-;
id=I,1,P,Row Identifier,-,-,-,:
f_code=T,5,N,FACC Feature Code,char.vdt,f_code1.nti,-,:
exs=S,1,N,Existence Category,int.vdt,-,-,:
hgt=S,1,N,Height Above Surface Level (meters),int.vdt,-,-,:
mcc=S,1,N,Material Composition Category,int.vdt,-,-,:
nam=T,*,N,Name,char.vdt,-,-,:
use=S,1,N,Usage,int.vdt,-,-,:
tile_id=S,1,N,Tile Reference ID,-,tile1_id.nti,-,:
cnd_id=I,1,N,Connected Node Primitive ID,-,cnd1_id.nti,-,:;
```

Column	Description	Value	Value Meaning	Applicable f_code for Each Attribute Value
id	Row Identifier	Sequential beginning with 1		
f_code	FACC Feature Code			
		AD030	Substation/Transformer Yard	
		AT040	Power Transmission Pylon	
		AT070	Telephone-Telegraph Pylon/Pole	
exs	Existence Category			
		0	Unknown	AD030, AT040, AT070
		5	Under Construction	AD030, AT040, AT070
		6	Abandoned/Disused	AD030, AT040, AT070
		28	Operational	AD030, AT040, AT070
hgt	Height Above Surface Level (meters)			
		0	Unknown	AD030, AT040, AT070
		>0	Actual Value	AD030, AT040, AT070
mcc	Material Composition Category			
		-32768	Null	AD030
		0	Unknown	AT040, AT070
		2	Aluminum	AT040, AT070
		64	Metal	AT040, AT070
		107	Steel	AT040, AT070
		117	Wood	AT040, AT070
		999	Other	AT040, AT070
nam	Name			
		Character text string		AD030, AT040, AT070
		"UNK" (no name present for feature)		AD030, AT040, AT070

TABLE E-144. Transmission Line Node Feature Table (Continued).

use	Usage			
		-32768	Null	AD030, AT040
		0	Unknown	AT070
		51	Telegraph	AT070
		52	Telephone	AT070

TABLE E-145. Pipeline Line Feature Table.

Thematic Layer: Utilities
Coverage Name: **util**
Table Description: Pipeline Line Feature Table
Table Name: **pipel.lft**
dq Layer Number: 8

```
{Header length}L;
Pipeline Line Feature Table;-;
id=I,1,P,Row Identifier,-,-,-,:
f_code=T,5,N,FACC Feature Code,char.vdt,-,-,:
acc=S,1,N,Accuracy Category,int.vdt,-,-,:
exs=S,1,N,Existence Category,int.vdt,-,-,:
loc=S,1,N,Location Category,int.vdt,-,-,:
pro=S,1,N,Product Category,int.vdt,-,-,:;
```

Column	Description	Value	Value Meaning	Applicable f_code for Each Attribute Value
id	Row Identifier	Sequential beginning with 1		
f_code	FACC Feature Code			
		AQ113	Pipeline/Pipe	
acc	Accuracy Category			
		0	Unknown	AQ113
		1	Accurate	AQ113
		2	Approximate	AQ113
exs	Existence Category			
		0	Unknown	AQ113
		5	Under Construction	AQ113
		6	Abandoned/Disused	AQ113
		28	Operational	AQ113
		999	Other	AQ113
loc	Location Category			
		0	Unknown	AQ113
		4	Below Surface/Submerged/ Underground	AQ113
		8	On Ground Surface	AQ113
		25	Suspended/Elevated Above Ground or Water Surface	AQ113
pro	Product Category			
		0	Unknown	AQ113
		13	Chemical	AQ113
		38	Gas	AQ113
		39	Gasoline	AQ113
		67	Oil	AQ113
		95	Sewage	AQ113
		116	Water	AQ113
		133	Telecommunications	AQ113
		999	Other	AQ113

TABLE E-146. Power Line Feature Table.

Thematic Layer: Utilities
Coverage Name: **util**
Table Description: Power Line Feature Table
Table Name: **powerl.lft**
dq Layer Number: 8

```
{Header length}L;
Power Line Feature Table;-;
id=I,1,P,Row Identifier,-,-,-,:
f_code=T,5,N,FACC Feature Code,char.vdt,-,-,:
acc=S,1,N,Accuracy Category,int.vdt,-,-,:
exs=S,1,N,Existence Category,int.vdt,-,-,:
kva=S,1,N,Kilovolt Capacity Attribute,int.vdt,-,-,:
npl=S,1,N,Number of Parallel Lines,int.vdt,-,-,:;
```

Column	Description	Value	Value Meaning	Applicable f_code for Each Attribute Value
id	Row Identifier	Sequential beginning with 1		
f_code	FACC Feature Code			
		AT030	Power Transmission Line	
acc	Accuracy Category			
		0	Unknown	AT030
		1	Accurate	AT030
		2	Approximate	AT030
exs	Existence Category			
		0	Unknown	AT030
		5	Under Construction	AT030
		6	Abandoned/Disused	AT030
		28	Operational	AT030
kva	Kilovolt Capacity Attribute			
		0	Unknown	AT030
		>0	Actual value	AT030
npl	Number of Parallel Lines			
		0	Unknown	AT030
		>0	Actual Value	AT030

TABLE E-147. Telephone Line Feature Table.

Thematic Layer: Utilities
Coverage Name: **util**
Table Description: Telephone Line Feature Table
Table Name: **telel.lft**
dq Layer Number: 8

```
{Header length}L;
Telephone Line Feature Table;-;
id=I,1,P,Row Identifier,-,-,-,:
f_code=T,5,N,FACC Feature Code,char.vdt,-,-,:
exs=S,1,N,Existence Category,int.vdt,-,-,:
npl=S,1,N,Number of Parallel Lines,int.vdt,-,-,:
use=S,1,N,Usage,int.vdt,-,-,:;
```

Column	Description	Value	Value Meaning	Applicable f_code for Each Attribute Value
id	Row Identifier	Sequential beginning with 1		
f_code	FACC Feature Code			
		AT060	Telephone Line/Telegraph Line	
exs	Existence Category			
		0	Unknown	AT060
		5	Under Construction	AT060
		6	Abandoned/Disused	AT060
		30	Not Isolated	AT060
		31	Isolated	AT060
npl	Number of Parallel Lines			
		0	Unknown	AT060
		>0	Actual Value	AT060
use	Usage			
		0	Unknown	AT060
		51	Telegraph	AT060
		52	Telephone	AT060

TABLE E-148. Communication Area Feature Table.

Thematic Layer: Utilities
Coverage Name: **util**
Table Description: Communication Area Feature Table
Table Name: **comma.aft**
dq Layer Number: 8

```
{Header length}L;
Communication Area Feature Table;-;
id=I,1,P,Row Identifier,-,-,-,:
f_code=T,5,N,FACC Feature Code,char.vdt,f_code1.ati,-,:
ara=S,1,N,Area Coverage Attribute (sq. meters),int.vdt,-,-,:
arh=S,1,N,Area Coverage Attribute Hectares,-,-,-,:
hgt=S,1,N,Height Above Surface Level (meters),int.vdt,-,-,:
idn=T,*,N,Identification Number,char.vdt,-,-,:
nam=T,*,N,Name,char.vdt,-,-,:
nst=S,1,N,Navigation System Types,int.vdt,-,-,:
use=S,1,N,Usage,int.vdt,-,-,:;
```

Column	**Description**	**Value**	**Value Meaning**	**Applicable f_code for Each Attribute Value**
id	Row Identifier	Sequential beginning with 1		
f_code	FACC Feature Code			
		AT010	Disk/Dish	
		AT050	Communication Building	
ara	Area Coverage Attribute (sq. meters)			
		-32768	Null	AT010, AT050 **arh**>0
		0	Unknown	AT050 **arh**=-32768
		>0	Actual Value	AT050 **arh**=-32768
arh	Area Coverage Attribute Hectares			
		-32768	Null	AT010, AT050 **ara**>=0
		>0	Actual Value	AT050 **ara**=-32768
hgt	Height Above Surface Level (meters)			
		-32768	Null	AT050
		0	Unknown	AT010
		>0	Actual Value	AT010
idn	Identification Number			
		VLT=0-length	Null	AT010
		0	Unknown	AT050
		Any		AT050
nam	Name			
		VLT=0-length	Null	AT010
		Character text string		AT050
		"UNK" (no name present for feature)		AT050

TABLE E-148. Communication Area Feature Table (Continued).

nst	Navigation System Types			
		-32768	Null	AT010
		0	Unknown	AT050
		12	Radio	AT050
		13	Radio Telephone	AT050
		15	TV	AT050
		16	Microwave	AT050
		33	Radio Telegraph	AT050
use	Usage			
		0	Unknown	AT010, AT050
		4	National	AT010, AT050
		5	State	AT010, AT050
		8	Military	AT010, AT050
		22	Joint Military/Civilian	AT010, AT050
		49	Civilian/Public	AT010, AT050

TABLE E-149. Power Area Feature Table.

Thematic Layer: Utilities
Coverage Name: **util**
Table Description: Power Area Feature Table
Table Name: **powrutla.aft**
dq Layer Number: 8

```
{Header length}L;
Power Area Feature Table;-;
id=I,1,P,Row Identifier,-,-,-,:
f_code=T,5,N,FACC Feature Code,char.vdt,-,-,:
ara=S,1,N,Area Coverage Attribute (sq. meters),int.vdt,-,-,:
arh=S,1,N,Area Coverage Attribute Hectares,-,-,-,:
hgt=S,1,N,Height Above Surface Level (meters),int.vdt,-,-,:
nam=T,*,N,Name,char.vdt,-,-,:
ppc=S,1,N,Power Plant Category,int.vdt,-,-,:;
```

Column	**Description**	**Value**	**Value Meaning**	**Applicable f_code for Each Attribute Value**
id	Row Identifier	Sequential beginning with 1		
f_code	FACC Feature Code			
		AD010	Power Plant	
ara	Area Coverage Attribute (sq. meters)			
		-32768	Null	AD010 **arh**>0
		0	Unknown	AD010 **arh**=-32768
		>0	Actual Value	AD010 **arh**=-32768
arh	Area Coverage Attribute Hectares			
		-32768	Null	AD010 **ara**>=0
		>0	Actual Value	AD010 **ara**=-32768
hgt	Height Above Surface Level (meters)			
		0	Unknown	AD010
		>0	Actual Value	AD010
nam	Name			
		Character text string		AD010
		"UNK" (no name present for feature)		AD010
ppc	Power Plant Category			
		0	Unknown	AD010
		1	Hydro-electric	AD010
		2	Nuclear	AD010
		3	Solar	AD010
		4	Thermal	AD010
		6	Tidal	AD010
		7	Internal Combustion	AD010

TABLE E-150. Pumping Area Feature Table.

Thematic Layer: Utilities
Coverage Name: **util**
Table Description: Pumping Area Feature Table
Table Name: **pumpinga.aft**
dq Layer Number: 8

```
{Header length}L;
Pumping Area Feature Table;-;
id=I,1,P,Row Identifier,-,-,-,:
f_code=T,5,N,FACC Feature Code,char.vdt,-,-,:
idn=T,*,N,Identification Number,char.vdt,-,-,:
pro=S,1,N,Product Category,int.vdt,-,-,:;
```

Column	Description	Value	Value Meaning	Applicable f_code for Each Attribute Value
id	Row Identifier	Sequential beginning with 1		
f_code	FACC Feature Code			
		AQ116	Pumping Station	
idn	Identification Number			
		0	Unknown	AQ116
		Any		AQ116
pro	Product Category			
		0	Unknown	AQ116
		38	Gas	AQ116
		67	Oil	AQ116
		116	Water	AQ116
		999	Other	AQ116

TABLE E-151. Substation Area Feature Table.

Thematic Layer: Utilities
Coverage Name: **util**
Table Description: Substation Area Feature Table
Table Name: **substata.aft**
dq Layer Number: 8

```
{Header length}L;
Substation Area Feature Table;-;
id=I,1,P,Row Identifier,-,-,-,:
f_code=T,5,N,FACC Feature Code,char.vdt,-,-,:
ara=S,1,N,Area Coverage Attribute (sq. meters),int.vdt,-,-,:
arh=S,1,N,Area Coverage Attribute Hectares,-,-,-,:
exs=S,1,N,Existence Category,int.vdt,-,-,:
hgt=S,1,N,Height Above Surface Level (meters),int.vdt,-,-,:
nam=T,*,N,Name,char.vdt,-,-,:;
```

Column	**Description**	**Value**	**Value Meaning**	**Applicable f_code for Each Attribute Value**
id	Row Identifier	Sequential beginning with 1		
f_code	FACC Feature Code			
		AD030	Substation/Transformer Yard	
ara	Area Coverage Attribute (sq. meters)			
		-32768	Null	AD030 **arh**>0
		0	Unknown	AD030 **arh**=-32768
		>0	Actual Value	AD030 **arh**=-32768
arh	Area Coverage Attribute Hectares			
		-32768	Null	AD030 **ara**>=0
		>0	Actual Value	AD030 **ara**=-32768
exs	Existence Category			
		0	Unknown	AD030
		5	Under Construction	AD030
		6	Abandoned/Disused	AD030
hgt	Height Above Surface Level (meters)			
		0	Unknown	AD030
		>0	Actual Value	AD030
nam	Name			
		Character text string		AD030
		"UNK" (no name present for feature)		AD030

TABLE E-152. Utilities Text Feature Table.

Thematic Layer: Utilities
Coverage Name: **util**
Table Description: Utilities Text Feature Table
Table Name: **utiltxt.tft**
dq Layer Number: 8

```
{Header length}L;
Utilities Text Feature Table;-;
id=I,1,P,Row Identifier,-,-,-,:
f_code=T,5,N,FACC Feature Code,char.vdt,f_code1.tti,-,:
symbol_id=S,1,N,Symbol Identification,-,-,-,:
tile_id=S,1,N,Tile Reference ID,-,tile1_id.tti,-,:
txt_id=I,1,N,Text Primitive ID,-,txt1_id.tti,-,:;
```

Column	**Description**	**Value**	**Value Meaning**	**Applicable f_code for Each Attribute Value**
id	Row Identifier	Sequential beginning with 1		
f_code	FACC Feature Code			
		ZD040	Named Location	
		ZD045	Text Description	
symbol_id	Symbol Identification (Refer to Symbol Related Attribute Table for selection of values)			

TABLE E-153. Utilities Feature Class Attribute Table.

Thematic Layer: Utilities
Coverage Name: **util**
Table Description: Utilities Feature Class Attribute Table
Table Name: **fca**
dq Layer Number: 8

{Header length}L; Utilities Feature Class Attribute Table;-; id=I,1,P,Row Identifier,-,-,-,: fclass=T,8,U,Feature Class Name,-,-,-,: type=T,1,N,Feature Type,char.vdt,-,-,: descr=T,*,N,Description,-,-,-,:;

1	commp	P	Communication Points
:	:	:	:
n	n	n	n

Column	Description	Value	Value Meaning	Applicable fclass for Each Attribute Value
id	Row Identifier	Sequential beginning with 1		
fclass	Feature Class Name			
		commp		
		pumpingp		
		translnc		
		pipel		
		powerl		
		telel		
		comma		
		powrutla		
		pumpinga		
		substata		
		utiltxt		
type	Feature Type			
		P	Point/Node Feature	commp, pumpingp, translnc
		L	Line Feature	pipel, powerl, telel
		A	Area Feature	comma, powrutla, pumpinga, substata
		T	Text Feature	utiltxt

TABLE E-153. Utilities Feature Class Attribute Table (Continued).

descr	Description		
		Communication Points	commp
		Pumping Points	pumpingp
		Transmission Line Nodes	translnc
		Pipeline Lines	pipel
		Power Line Lines	powerl
		Telephone Lines	telel
		Communication Areas	comma
		Power Areas	powrutla
		Pumping Areas	pumpinga
		Substation Areas	substata
		Utilities Coverage Text	utiltxt

TABLE E-154. Utilities Character Value Description Table.

Thematic Layer: Utilities
Coverage Name: **util**
Table Description: Utilities Character Value Description Table
Table Name: **char.vdt**
dq Layer Number: 8

```
{Header length}L;
Utilities Character Value Description Table;-;
id=I,1,P,Row Identifier,-,-,-,:
table=T,12,N,Name of the Feature Table,-,-,-,:
attribute=T,6,N,Column Name,-,-,-,:
value=T,5,N,Unique Value of Attribute,-,-,-,:
description=T,30,N,Description of Value,-,-,-,:;
```

1	commp.pft	f_code	AT010	Disk/Dish
2	commp.pft	f_code	AT050	Communication Building
3	commp.pft	f_code	AT080	Communication Tower
4	commp.pft	idn	0	Unknown
5	commp.pft	nam	UNK	No name present
6	pumpingp.pft	f_code	AQ116	Pumping Station
7	pumpingp.pft	idn	0	Unknown
8	dqpoint.pft	f_code	AT010	Disk/Dish
9	dqpoint.pft	f_code	AT050	Communication Building
10	dqpoint.pft	f_code	AT080	Communication Tower
11	dqpoint.pft	f_code	AQ116	Pumping Station
12	dqpoint.pft	f_code	ZD045	Text Description
13	translnc.pft	f_code	AD030	Substation/Transformer Yard
14	translnc.pft	f_code	AT040	Power Transmission Pylon
15	translnc.pft	f_code	AT070	Telephone-Telegraph Pylon/Pole
16	translnc.pft	nam	UNK	No name present
17	dqnode.pft	f_code	AD030	Substation/Transformer Yard
18	dqnode.pft	f_code	AT040	Power Transmission Pylon
19	dqnode.pft	f_code	AT070	Telephone-Telegraph Pylon/Pole
20	dqnode.pft	f_code	ZD045	Text Description
21	pipel.lft	f_code	AQ113	Pipeline/Pipe
22	powerl.lft	f_code	AT030	Power Transmission Line
23	telel.lft	f_code	AT060	Telephone Line/Telegraph Line
24	dqline.lft	f_code	AQ113	Pipeline/Pipe
25	dqline.lft	f_code	AT030	Power Transmission Line
26	dqline.lft	f_code	AT060	Telephone Line/Telegraph Line
27	dqline.lft	f_code	ZD045	Text Description
28	comma.aft	f_code	AT010	Disk/Dish
29	comma.aft	f_code	AT050	Communication Building
30	comma.aft	idn	0	Unknown
31	comma.aft	nam	UNK	No name present
32	powrutla.aft	f_code	AD010	Power Plant
33	powrutla.aft	nam	UNK	No name present
34	pumpinga.aft	f_code	AQ116	Pumping Station
35	pumpinga.aft	idn	0	Unknown
36	substata.aft	f_code	AD030	Substation/Transformer Yard

TABLE E-154. Utilities Character Value Description Table (Continued)

37	substata.aft	nam	UNK	No name present
38	dqarea.aft	f_code	AT010	Disk/Dish
39	dqarea.aft	f_code	AT050	Communication Building
40	dqarea.aft	f_code	AD010	Power Plant
41	dqarea.aft	f_code	AQ116	Pumping Station
42	dqarea.aft	f_code	AD030	Substation/Transformer Yard
43	dqarea.aft	f_code	ZD045	Text Description
44	utiltxt.tft	f_code	ZD040	Named Location
45	utiltxt.tft	f_code	ZD045	Text Description
46	fca	type	A	Area Feature
47	fca	type	L	Line Feature
48	fca	type	P	Point/Node Feature
49	fca	type	T	Text Feature

TABLE E-155. Utilities Integer Value Description Table.

Thematic Layer: Utilities
Coverage Name: **util**
Table Description: Utilities Integer Value Description Table
Table Name: **int.vdt**
dq Layer Number: 8

```
{Header length}L;
Utilities Integer Value Description Table;-;
id=I,1,P,Row Identifier,-,-,-,:
table=T,12,N,Name of the Feature Table,-,-,-,:
attribute=T,3,N,Column Name,-,-,-,:
value=S,1,N,Unique Value of Attribute,-,-,-,:
description=T,51,N,Description of Value,-,-,-,:;
```

1	commp.pft	ara	0	Unknown
2	commp.pft	hgt	0	Unknown
3	commp.pft	len	0	Unknown
4	commp.pft	nst	0	Unknown
5	commp.pft	nst	12	Radio
6	commp.pft	nst	13	Radio Telephone
7	commp.pft	nst	15	TV
8	commp.pft	nst	16	Microwave
9	commp.pft	nst	33	Radio Telegraph
10	commp.pft	use	0	Unknown
11	commp.pft	use	4	National
12	commp.pft	use	5	State
13	commp.pft	use	8	Military
14	commp.pft	use	22	Joint Military/Civilian
15	commp.pft	use	49	Civilian/Public
16	pumpingp.pft	len	0	Unknown
17	pumpingp.pft	pro	0	Unknown
18	pumpingp.pft	pro	38	Gas
19	pumpingp.pft	pro	67	Oil
20	pumpingp.pft	pro	116	Water
21	pumpingp.pft	pro	999	Other
22	pumpingp.pft	wid	0	Unknown
23	translnc.pft	exs	0	Unknown
24	translnc.pft	exs	5	Under Construction
25	translnc.pft	exs	6	Abandoned/Disused
26	translnc.pft	exs	28	Operational
27	translnc.pft	hgt	0	Unknown
28	translnc.pft	mcc	0	Unknown
29	translnc.pft	mcc	2	Aluminum
30	translnc.pft	mcc	64	Metal
31	translnc.pft	mcc	107	Steel
32	translnc.pft	mcc	117	Wood
33	translnc.pft	mcc	999	Other
34	translnc.pft	use	0	Unknown
35	translnc.pft	use	51	Telegraph
36	translnc.pft	use	52	Telephone

TABLE E-155. Utilities Integer Value Description Table (Continued).

37	pipel.lft	acc	0	Unknown
38	pipel.lft	acc	1	Accurate
39	pipel.lft	acc	2	Approximate
40	pipel.lft	exs	0	Unknown
41	pipel.lft	exs	5	Under Construction
42	pipel.lft	exs	6	Abandoned/Disused
43	pipel.lft	exs	28	Operational
44	pipel.lft	exs	999	Other
45	pipel.lft	loc	0	Unknown
46	pipel.lft	loc	4	Below Surface/Submerged/Underground
47	pipel.lft	loc	8	On Ground Surface
48	pipel.lft	loc	25	Suspended/Elevated Above Ground or Water Surface
49	pipel.lft	pro	0	Unknown
50	pipel.lft	pro	13	Chemical
51	pipel.lft	pro	38	Gas
52	pipel.lft	pro	39	Gasoline
53	pipel.lft	pro	67	Oil
54	pipel.lft	pro	95	Sewage
55	pipel.lft	pro	116	Water
56	pipel.lft	pro	133	Telecommunications
57	pipel.lft	pro	999	Other
58	powerl.lft	acc	0	Unknown
59	powerl.lft	acc	1	Accurate
60	powerl.lft	acc	2	Approximate
61	powerl.lft	exs	0	Unknown
62	powerl.lft	exs	5	Under Construction
63	powerl.lft	exs	6	Abandoned/Disused
64	powerl.lft	exs	28	Operational
65	powerl.lft	kva	0	Unknown
66	powerl.lft	npl	0	Unknown
67	telel.lft	exs	0	Unknown
68	telel.lft	exs	5	Under Construction
69	telel.lft	exs	6	Abandoned/Disused
70	telel.lft	exs	30	Not Isolated
71	telel.lft	exs	31	Isolated
72	telel.lft	npl	0	Unknown
73	telel.lft	use	0	Unknown
74	telel.lft	use	51	Telegraph
75	telel.lft	use	52	Telephone
76	comma.aft	ara	0	Unknown
77	comma.aft	hgt	0	Unknown
78	comma.aft	nst	0	Unknown
79	comma.aft	nst	12	Radio
80	comma.aft	nst	13	Radio Telephone
81	comma.aft	nst	15	TV
82	comma.aft	nst	16	Microwave
83	comma.aft	nst	33	Radio Telegraph
84	comma.aft	use	0	Unknown

TABLE E-155. Utilities Integer Value Description Table (Continued).

85	comma.aft	use	4	National
86	comma.aft	use	5	State
87	comma.aft	use	8	Military
88	comma.aft	use	22	Joint Military/Civilian
89	comma.aft	use	49	Civilian/Public
90	powrutla.aft	ara	0	Unknown
91	powrutla.aft	hgt	0	Unknown
92	powrutla.aft	ppc	0	Unknown
93	powrutla.aft	ppc	1	Hydro-electric
94	powrutla.aft	ppc	2	Nuclear
95	powrutla.aft	ppc	3	Solar
96	powrutla.aft	ppc	4	Thermal
97	powrutla.aft	ppc	6	Tidal
98	powrutla.aft	ppc	7	Internal Combustion
99	pumpinga.aft	pro	0	Unknown
100	pumpinga.aft	pro	38	Gas
101	pumpinga.aft	pro	67	Oil
102	pumpinga.aft	pro	116	Water
103	pumpinga.aft	pro	999	Other
104	substata.aft	ara	0	Unknown
105	substata.aft	exs	0	Unknown
106	substata.aft	exs	5	Under Construction
107	substata.aft	exs	6	Abandoned/Disused
108	substata.aft	hgt	0	Unknown
109	symbol.rat	fon	1	Machine Default
110	symbol.rat	sty	1	Kern
111	symbol.rat	sty	2	Proportional
112	symbol.rat	sty	3	Constant
113	symbol.rat	col	1	Black
114	symbol.rat	col	4	Blue
115	symbol.rat	col	9	Red-Brown
116	symbol.rat	col	12	Magenta

E.3.11 Vegetation Coverage.

TABLE E-156. Content and format for Vegetation Coverage Feature Class Schema Table.

Thematic Layer: Vegetation
Coverage Name: **veg**
Table Description: Vegetation Feature Class Schema Table
Table Name: **fcs**
dq Layer Number: 9

{Header length}L;
Vegetation Feature Class Schema Table;-;
id=I,1,P,Row Identifier,-,-,-,:
feature_class=T,8,N,Name of Feature Class,-,-,-,:
table1=T,12,N,First Table,-,-,-,:
table1_key=T,16,N,Column Name in First Table,-,-,-,:
table2=T,12,N,Second Table,-,-,-,:
table2_key=T,16,N,Column Name in Second Table, -,-,-,:;

1	firebrkl	firebrkl.lft	id	firebrkl.ljt	firebrkl.lft_id
2	firebrkl	firebrkl.ljt	edg_id	edg	id
3	firebrkl	edg	id	firebrkl.ljt	edg_id
4	firebrkl	firebrkl.ljt	firebrkl.lft_id	firebrkl.lft	id
5	hedgel	hedgel.lft	id	hedgel.ljt	hedgel.lft_id
6	hedgel	hedgel.ljt	edg_id	edg	id
7	hedgel	edg	id	hedgel.ljt	edg_id
8	hedgel	hedgel.ljt	hedgel.lft_id	hedgel.lft	id
9	cropa	cropa.aft	id	cropa.ajt	cropa.aft_id
10	cropa	cropa.ajt	fac_id	fac	id
11	cropa	fac	id	cropa.ajt	fac_id
12	cropa	cropa.ajt	cropa.aft_id	cropa.aft	id
13	grassa	grassa.aft	id	grassa.ajt	grassa.aft_id
14	grassa	grassa.ajt	fac_id	fac	id
15	grassa	fac	id	grassa.ajt	fac_id
16	grassa	grassa.ajt	grassa.aft_id	grassa.aft	id
17	orcharda	orcharda.aft	id	orcharda.ajt	orcharda.aft_id
18	orcharda	orcharda.ajt	fac_id	fac	id
19	orcharda	fac	id	orcharda.ajt	fac_id
20	orcharda	orcharda.ajt	orcharda.aft_id	orcharda.aft	id
21	swampa	swampa.aft	id	swampa.ajt	swampa.aft_id
22	swampa	swampa.ajt	fac_id	fac	id
23	swampa	fac	id	swampa.ajt	fac_id
24	swampa	swampa.ajt	swampa.aft_id	swampa.aft	id
25	treesa	treesa.aft	id	treesa.ajt	treesa.aft_id
26	treesa	treesa.ajt	fac_id	fac	id
27	treesa	fac	id	treesa.ajt	fac_id
28	treesa	treesa.ajt	treesa.aft_id	treesa.aft	id
29	dqline	dqline.lft	id	dqline.ljt	dqline.lft_id
30	dqline	dqline.ljt	edg_id	edg	id
31	dqline	edg	id	dqline.ljt	edg_id
32	dqline	dqline.ljt	dqline.lft_id	dqline.lft	id

TABLE E-156. Content and format for Vegetation Coverage Feature Class Schema Table (Continued).

33	Dqline	dqline.lft	dqdescr_id	dqdescr.rat	id
34	dqarea	dqarea.aft	id	dqarea.ajt	dqarea.aft_id
35	dqarea	dqarea.ajt	fac_id	fac	id
36	dqarea	fac	id	dqarea.ajt	fac_id
37	dqarea	dqarea.ajt	dqarea.aft_id	dqarea.aft	id
38	dqarea	dqarea.aft	dqdescr_id	dqdescr.rat	id
39	dqtext	dqtext.tft	txt_id	txt	id
40	dqtext	txt	id	dqtext.tft	txt_id
41	vegtxt	vegtxt.tft	txt_id	txt	id
42	vegtxt	txt	id	vegtxt.tft	txt_id
43	vegtxt	vegtxt.tft	symbol_id	symbol.rat	symbol_id

TABLE E-157. Firebreak Line Feature Table.

Thematic Layer: Vegetation
Coverage Name: **veg**
Table Description: Firebreak Line Feature Table
Table Name: **firebrkl.lft**
dq Layer Number: 9

```
{Header length}L;
Firebreak Line Feature Table;-;
id=I,1,P,Row Identifier,-,-,-,:
f_code=T,5,N,FACC Feature Code,char.vdt,-,-,:
wid=S,1,N,Width (meters),int.vdt,-,-,:;
```

Column	Description	Value	Value Meaning	Applicable f_code for Each Attribute Value
id	Row Identifier	Sequential beginning with 1		
f_code	FACC Feature Code			
		EC040	Cleared Way/Cut Line/Firebreak	
wid	Width (meters)			
		0	Unknown	EC040
		> 0	Actual Value	EC040

TABLE E-158. Hedge Line Feature Table.

Thematic Layer: Vegetation
Coverage Name: **veg**
Table Description: Hedge Line Feature Table
Table Name: **hedgel.lft**
dq Layer Number: 9

```
{Header length}L;
Hedge Line Feature Table;-;
id=I,1,P,Row Identifier,-,-,-,:
f_code=T,5,N,FACC Feature Code,char.vdt,-,-,:;
```

Column	Description	Value	Value Meaning	Applicable f_code for Each Attribute Value
id	Row Identifier	Sequential beginning with 1		
f_code	FACC Feature Code			
		EA020	Hedgerow	

TABLE E-159. Cropland Area Feature Table.

Thematic Layer: Vegetation
Coverage Name: **veg**
Table Description: Cropland Area Feature Table
Table Name: **cropa.aft**
dq Layer Number: 9

```
{Header length}L;
Cropland Area Feature Table;-;
id=I,1,P,Row Identifier,-,-,-,:
f_code=T,5,N,FACC Feature Code,char.vdt,-,-,:
ara=S,1,N,Area Coverage Attribute (sq. meters),int.vdt,-,-,:
arh=S,1,N,Area Coverage Attribute Hectares,-,-,-,:
ftc=S,1,N,Farming Type Category,int.vdt,-,-,:
veg=S,1,N,Vegetation Characteristic,int.vdt,-,-,:;
```

Column	**Description**	**Value**	**Value Meaning**	**Applicable f_code for Each Attribute Value**
id	Row Identifier	Sequential beginning with 1		
f_code	FACC Feature Code			
		EA010	Cropland	
ara	Area Coverage Attribute (sq. meters)			
		-32768	Null	EA010 **arh**>0
		0	Unknown	EA010 **arh**=-32768
		>0	Actual Value	EA010 **arh**=-32768
arh	Area Coverage Attribute Hectares			
		-32768	Null	EA010 **ara**>=0
		>0	Actual Value	EA010 **ara**=-32768
ftc	Farming Type Category			
		0	Unknown	EA010
		3	Terraced	EA010
		8	Shifting Cultivation/ Crop Rotation	EA010
		9	Not Applicable	EA010
		999	Other	EA010
veg	Vegetation Characteristic			
		0	Unknown	EA010
		1	Dry Crops	EA010
		4	Rice Paddies	EA010
		999	Other	EA010

TABLE E-160. Grassland Area Feature Table.

Thematic Layer: Vegetation
Coverage Name: **veg**
Table Description: Grassland Area Feature Table
Table Name: **grassa.aft**
dq Layer Number: 9

```
{Header length}L;
Grassland Area Feature Table;-;
id=I,1,P,Row Identifier,-,-,-,:
f_code=T,5,N,FACC Feature Code,char.vdt,f_code2.ati,-,:
ara=S,1,N,Area Coverage Attribute (sq. meters),int.vdt,-,-,:
arh=S,1,N,Area Coverage Attribute Hectares,-,-,-,:
mas=S,1,N,Maintenance Status,int.vdt,-,-,:;
```

Column	**Description**	**Value**	**Value Meaning**	**Applicable f_code for Each Attribute Value**
id	Row Identifier	Sequential beginning with 1		
f_code	FACC Feature Code			
		BH077	Hummock	
		EB010	Grassland	
		EB020	Scrub/Brush	
		EC010	Bamboo/Cane	
		EE000	Miscellaneous Vegetation	
ara	Area Coverage Attribute (sq. meters)			
		-32768	Null	BH077 **arh**>0, EB010 **arh**>0, EB020 **arh**>0, EC010 **arh**>0, EE000 **arh**>0
		0	Unknown	BH077 **arh**=-32768, EB010 **arh**=-32768, EB020 **arh**=-32768, EC010 **arh**=-32768, EE000 **arh**=-32768
		>0	Actual Value	BH077 **arh**=-32768, EB010 **arh**=-32768, EB020 **arh**=-32768, EC010 **arh**=-32768, EE000 **arh**=-32768

TABLE E-160. Grassland Area Feature Table (Continued).

arh	Area Coverage Attribute Hectares			
		-32768	Null	BH077 **ara**>=0, EB010 **ara**>=0, EB020 **ara**>=0, EC010 **ara**>=0, EE000 **ara**>=0
		>0	Actual Value	BH077 **ara**=-32768, EB010 **ara**=-32768, EB020 **ara**=-32768, EC010 **ara**=-32768, EE000 **ara**=-32768
mas	Maintenance Status			
		-32768	Null	BH077, EB010, EB020, EC010
		0	Unknown	EE000
		1	Maintained	EE000
		2	Not Maintained	EE000

TABLE E-161. Orchard Area Feature Table.

Thematic Layer: Vegetation
Coverage Name: **veg**
Table Description: Orchard Area Feature Table
Table Name: **orcharda.aft**
dq Layer Number: 9

```
{Header length}L;
Orchard Area Feature Table;-;
id= I,1,P,Row Identifier,-,-,-,:
f_code=T,5,N,FACC Feature Code,char.vdt,f_code3.ati,-,:
ara=S,1,N,Area Coverage Attribute (sq. meters),int.vdt,-,-,:
arh=S,1,N,Area Coverage Attribute Hectares,-,-,-,:
pro=S,1,N,Product Category,int.vdt,-,-,:;
```

Column	**Description**	**Value**	**Value Meaning**	**Applicable f_code for Each Attribute Value**
id	Row Identifier	Sequential beginning with 1		
f_code	FACC Feature Code			
		EA030	Nursery	
		EA040	Orchard/Plantation	
		EA050	Vineyards	
		EA055	Hops	
ara	Area Coverage Attribute (sq. meters)			
		-32768	Null	EA030 **arh**>0, EA040 **arh**>0, EA050 **arh**>0, EA055 **arh**>0
		0	Unknown	EA030 **arh**=-32768, EA040 **arh**=-32768, EA050 **arh**=-32768, EA055 **arh**=-32768
		>0	Actual Value	EA030 **arh**=-32768, EA040 **arh**=-32768, EA050 **arh**=-32768, EA055 **arh**=-32768
arh	Area Coverage Attribute Hectares			
		-32768	Null	EA030 **ara**>=0, EA040 **ara**>=0, EA050 **ara**>=0, EA055 **ara**>=0
		>0	Actual Value	EA030 **ara**=-32768, EA040 **ara**=-32768, EA050 **ara**=-32768, EA055 **ara**=-32768

TABLE E-161. Orchard Area Feature Table (Continued).

pro	Product Category			
		-32768	Null	EA030, EA050, EA055
		0	Unknown	EA040
		85	Rubber	EA040
		120	Bananas	EA040
		121	Cotton	EA040
		122	Bamboo	EA040
		123	Coffee	EA040
		124	Common fruit and/or nuts	EA040
		125	Palms	EA040
		126	Palmetto	EA040
		999	Other	EA040

TABLE E-162. Swamp Area Feature Table.

Thematic Layer: Vegetation
Coverage Name: **veg**
Table Description: Swamp Area Feature Table
Table Name: **swampa.aft**
dq Layer Number: 9

```
{Header length}L;
Swamp Area Feature Table;-;
id=I,1,P,Row Identifier,-,-,-,:
f_code=T,5,N,FACC Feature Code,char.vdt,f_code4.ati,-,:
ara=S,1,N,Area Coverage Attribute (sq. meters),int.vdt,-,-,:
arh=S,1,N,Area Coverage Attribute Hectares,-,-,-,:
exs=S,1,N,Existence Category,int.vdt,-,-,:
veg=S,1,N,Vegetation Characteristic,int.vdt,-,-,:;
```

Column	**Description**	**Value**	**Value Meaning**	**Applicable f_code for Each Attribute Value**
id	Row Identifier	Sequential beginning with 1		
f_code	FACC Feature Code			
		BH015	Bog	
		BH095	Marsh/Swamp	
ara	Area Coverage Attribute (sq. meters)			
		-32768	Null	BH015 **arh**>0, BH095 **arh**>0
		0	Unknown	BH015 **arh**=-32768, BH095 **arh**=-32768
		>0	Actual Value	BH015 **arh**=-32768, BH095 **arh**=-32768
arh	Area Coverage Attribute Hectares			
		-32768	Null	BH015 **ara**>=0, BH095 **ara**>=0
		>0	Actual Value	BH015 **ara**=-32768, BH095 **ara**=-32768
exs	Existence Category			
		-32768	Null	BH015
		0	Unknown	BH095
		50	Non-Tidal	BH095
		51	Tidal/Tidal Fluctuation	BH095
veg	Vegetation Characteristic			
		0	Unknown	BH015,BH095
		6	Cranberry	BH015
		7	Peat	BH015
		19	Mangrove	BH095
		38	Cypress	BH095
		999	Other	BH015,BH095

TABLE E-163. Trees Area Feature Table.

Thematic Layer: Vegetation
Coverage Name: **veg**
Table Description: Trees Area Feature Table
Table Name: **treesa.aft**
dq Layer Number: 9

```
{Header length}L;
Trees Area Feature Table;-;
id=I,1,P,Row Identifier,-,-,-,:
f_code=T,5,N,FACC Feature Code,char.vdt,-,-,:
ara=S,1,N,Area Coverage Attribute (sq. meters),int.vdt,-,-,:
arh=S,1,N,Area Coverage Attribute Hectares,-,-,-,:
coc=S,1,N,Conspicuous Category,int.vdt,-,-,:
cod=S,1,N,Certainty of Delineation,int.vdt,-,-,:
dmt=S,1,N,Density Measure (% Tree/Canopy Cover),int.vdt,-,-,:
exs=S,1,N,Existence Category,int.vdt,-,-,:
nam=T,*,N,Name,char.vdt,-,-,:
pht=S,1,N,Predominant Height (meters),int.vdt,-,-,:
sbc=S,1,N,Shelter Belt Condition,int.vdt,-,-,:
tre=S,1,N,Tree Type Category,int.vdt,-,-,:;
```

Column	**Description**	**Value**	**Value Meaning**	**Applicable f_code for Each Attribute Value**
id	Row Identifier	Sequential beginning with 1		
f_code	FACC Feature Code			
		EC030	Trees	
ara	Area Coverage Attribute (sq. meters)			
		-32768	Null	EC030 **arh**>0
		0	Unknown	EC030 **arh**=-32768
		>0	Actual Value	EC030 **arh**=-32768
arh	Area Coverage Attribute Hectares			
		-32768	Null	EC030 **ara**>=0
		>0	Actual Value	EC030 **ara**=-32768
coc	Conspicuous Category			
		0	Unknown	EC030
		1	Conspicuous from sea	EC030
		2	Not Conspicuous from sea	EC030
cod	Certainty of Delineation			
		0	Unknown	EC030
		1	Limits and Information Known	EC030
		2	Limits and Information Unknown	EC030

TABLE E-163. Trees Area Feature Table (Continued).

dmt	Density Measure (% Tree/Canopy Cover)			
		0	Unknown	EC030
		1-100		EC030
exs	Existence Category			
		0	Unknown	EC030
		30	Not Isolated	EC030
		31	Isolated	EC030
nam	Name			
		Character text string		EC030
		"UNK" (no name present for feature)		EC030
pht	Predominant Height (meters)			
		0	Unknown	EC030
		>0	Actual Value	EC030
sbc	Shelter Belt Condition			
		0	Unknown	EC030
		1	Functions as a shelter belt	EC030
		2	Does not function as a shelter belt	EC030
tre	Tree Type Category			
		0	Unknown	EC030
		1	Deciduous	EC030
		2	Evergreen	EC030
		3	Mixed	EC030

TABLE E-164. Vegetation Text Feature Table.

Thematic Layer: Vegetation
Coverage Name: **veg**
Table Description: Vegetation Text Feature Table
Table Name: **vegtxt.tft**
dq Layer Number: 9

```
{Header length}L;
Vegetation Text Feature Table;-;
id=I,1,P,Row Identifier,-,-,-,:
f_code=T,5,N,FACC Feature Code,char.vdt,f_code1.tti,-,:
symbol_id=S,1,N,Symbol Identification,-,-,-,:
tile_id=S,1,N,Tile Reference ID,-,tile1_id.tti,-,:
txt_id=I,1,N,Text Primitive ID,-,txt1_id.tti,-,:;
```

Column	**Description**	**Value**	**Value Meaning**	**Applicable f_code for Each Attribute Value**
id	Row Identifier	Sequential beginning with 1		
f_code	FACC Feature Code			
		ZD040	Named Location	
		ZD045	Text Description	
symbol_id	Symbol Identification (Refer to Symbol Related Attribute Table for selection of values)			

TABLE E-165. Vegetation Feature Class Attribute Table.

Thematic Layer: Vegetation
Coverage Name: **veg**
Table Description: Vegetation Feature Class Attribute Table
Table Name: **fca**
dq Layer Number: 9

```
{Header length}L;
Vegetation Feature Class Attribute Table;-;
id=I,1,P,Row Identifier,-,-,-,:
fclass=T,8,U,Feature Class Name,-,-,-,:
type=T,1,N,Feature Type,char.vdt,-,-,:
descr=T,*,N,Description,-,-,-,:;
1        firebrkl  P    Firebreak Lines
:        :         :    :
n        n         n    n
```

Column	Description	Value	Value Meaning	Applicable fclass for Each Attribute Value
id	Row Identifier	Sequential beginning with 1		
fclass	Feature Class Name			
		firebrkl		
		hedgel		
		cropa		
		grassa		
		orcharda		
		swampa		
		treesa		
		vegtxt		
type	Feature Type			
		L	Line Feature	firebrkl,hedgel
		A	Area Feature	cropa,grassa,orcharda, swampa,treesa
		T	Text Feature	vegtxt
descr	Description			
		Firebreak Lines		firebrkl
		Hedge Lines		hedgel
		Cropland Areas		cropa
		Grassland Areas		grassa
		Orchard Areas		orcharda
		Swamp Areas		swampa
		Trees Areas		treesa
		Vegetation Coverage Text		vegtxt

TABLE E-166. Vegetation Character Value Description Table.

Thematic Layer: Vegetation
Coverage Name: **veg**
Table Description: Vegetation Character Value Description Table
Table Name: **char.vdt**
dq Layer Number: 9

{Header length}L;
Vegetation Character Value Description Table;-;
id=I,1,P,Row Identifier,-,-,-,:
table=T,12,N,Name of the Feature Table,-,-,-,:
attribute=T,6,N,Column Name,-,-,-,:
value=T,5,N,Unique Value of Attribute,-,-,-,:
description=T,24,N,Description of Value,-,-,-,:;

1	firebrkl.lft	f_code	EC040	Cleared Way/Cut Line/Firebreak
2	hedgel.lft	f_code	EA020	Hedgerow
3	dqline.lft	f_code	EC040	Cleared Way/Cut Line/Firebreak
4	dqline.lft	f_code	EA020	Hedgerow
5	dqline.lft	f_code	ZD045	Text Description
6	cropa.aft	f_code	EA010	Cropland
7	grassa.aft	f_code	BH077	Hummock
8	grassa.aft	f_code	EB010	Grassland
9	grassa.aft	f_code	EB020	Scrub/Brush
10	grassa.aft	f_code	EC010	Bamboo/Cane
11	grassa.aft	f_code	EE000	Miscellaneous Vegetation
12	orcharda.aft	f_code	EA030	Nursery
13	orcharda.aft	f_code	EA040	Orchard/Plantation
14	orcharda.aft	f_code	EA050	Vineyards
15	orcharda.aft	f_code	EA055	Hops
16	swampa.aft	f_code	BH015	Bog
17	swampa.aft	f_code	BH095	Marsh/Swamp
18	treesa.aft	f_code	EC030	Trees
19	treesa.aft	nam	UNK	No name present
20	dqarea.aft	f_code	EA010	Cropland
21	dqarea.aft	f_code	BH077	Hummock
22	dqarea.aft	f_code	EB010	Grassland
23	dqarea.aft	f_code	EB020	Scrub/Brush
24	dqarea.aft	f_code	EC010	Bamboo/Cane
25	dqarea.aft	f_code	EE000	Miscellaneous Vegetation
26	dqarea.aft	f_code	EA030	Nursery
27	dqarea.aft	f_code	EA040	Orchard/Plantation
28	dqarea.aft	f_code	EA050	Vineyards
29	dqarea.aft	f_code	EA055	Hops
30	dqarea.aft	f_code	BH015	Bog
31	dqarea.aft	f_code	BH095	Marsh/Swamp

TABLE E-166. Vegetation Character Value Description Table (Continued).

32	dqarea.aft	f_code	EC030	Trees
33	dqarea.aft	f_code	ZD045	Text Description
34	vegtxt.tft	f_code	ZD040	Named Location
35	vegtxt.tft	f_code	ZD045	Text Description
36	fca	type	A	Area Feature
37	fca	type	L	Line Feature
38	fca	type	T	Text Feature

TABLE E-167. Vegetation Integer Value Description Table.

Thematic Layer: Vegetation
Coverage Name: **veg**
Table Description: Vegetation Integer Value Description Table
Table Name: **int.vdt**
dq Layer Number: 9

```
{Header length}L;
Vegetation Integer Value Description Table;-;
id=I,1,P,Row Identifier,-,-,-,:
table=T,12,N,Name of the Feature Table,-,-,-,:
attribute=T,3,N,Column Name,-,-,-,:
value=S,1,N,Unique Value of Attribute,-,-,-,:
description=T,35,N,Description of Value,-,-,-,:;
```

1	firebrkl.lft	wid	0	Unknown
2	cropa.aft	ara	0	Unknown
3	cropa.aft	ftc	0	Unknown
4	cropa.aft	ftc	3	Terraced
5	cropa.aft	ftc	8	Shifting Cultivation/Crop Rotation
6	cropa.aft	ftc	9	Not Applicable
7	cropa.aft	ftc	999	Other
8	cropa.aft	veg	0	Unknown
9	cropa.aft	veg	1	Dry Crops
10	cropa.aft	veg	4	Rice Paddies
11	cropa.aft	veg	999	Other
12	grassa.aft	ara	0	Unknown
13	grassa.aft	mas	0	Unknown
14	grassa.aft	mas	1	Maintained
15	grassa.aft	mas	2	Not Maintained
16	orcharda.aft	ara	0	Unknown
17	orcharda.aft	pro	0	Unknown
18	orcharda.aft	pro	85	Rubber
19	orcharda.aft	pro	120	Bananas
20	orcharda.aft	pro	121	Cotton
21	orcharda.aft	pro	122	Bamboo
22	orcharda.aft	pro	123	Coffee
23	orcharda.aft	pro	124	Common fruit and/or nuts
24	orcharda.aft	pro	125	Palms
25	orcharda.aft	pro	126	Palmetto
26	orcharda.aft	pro	999	Other
27	swampa.aft	ara	0	Unknown
28	swampa.aft	exs	0	Unknown
29	swampa.aft	exs	50	Non-Tidal
30	swampa.aft	exs	51	Tidal/Tidal Fluctuation
31	swampa.aft	veg	0	Unknown
32	swampa.aft	veg	6	Cranberry
33	swampa.aft	veg	7	Peat
34	swampa.aft	veg	19	Mangrove
35	swampa.aft	veg	38	Cypress
36	swampa.aft	veg	999	Other

TABLE E-167. Vegetation Integer Value Description Table (Continued).

37	treesa.aft	ara	0	Unknown
38	treesa.aft	coc	0	Unknown
39	treesa.aft	coc	1	Conspicuous from sea
40	treesa.aft	coc	2	Not Conspicuous from sea
41	treesa.aft	cod	0	Unknown
42	treesa.aft	cod	1	Limits and Information Known
43	treesa.aft	cod	2	Limits and Information Unknown
44	treesa.aft	dmt	0	Unknown
45	treesa.aft	exs	0	Unknown
46	treesa.aft	exs	30	Not Isolated
47	treesa.aft	exs	31	Isolated
48	treesa.aft	pht	0	Unknown
49	treesa.aft	sbc	0	Unknown
50	treesa.aft	sbc	1	Functions as a shelter belt
51	treesa.aft	sbc	2	Does not function as a shelter belt
52	treesa.aft	tre	0	Unknown
53	treesa.aft	tre	1	Deciduous
54	treesa.aft	tre	2	Evergreen
55	treesa.aft	tre	3	Mixed
56	symbol.rat	fon	1	Machine Default
57	symbol.rat	sty	1	Kern
58	symbol.rat	sty	2	Proportional
59	symbol.rat	sty	3	Constant
60	symbol.rat	col	1	Black
61	symbol.rat	col	4	Blue
62	symbol.rat	col	9	Red-Brown
63	symbol.rat	col	12	Magenta

UVMAP TREE STRUCTURE

F.1 SCOPE

F.1.1 Scope. This appendix depicts the directory structure and file content of UVMap.

F.2 APPLICABLE DOCUMENTS

This section is not applicable to this appendix.

F.3 UVMap TREE STRUCTURE

TABLE F-1 lists the directory structure and file content of the UVMap product. Note that a particular geographic area included in a given library may not contain data to support all the allowable feature classes. Placeholders (xxx...) are used to represent the location-specific portion of the library and primitive directory names. Because the **tileref** and **libref** are not tiled, their primitive files are contained in the coverage directories.

TABLE F-1. UVMap Directory structure and file content.

Database Directory	/uvmap						
		dht	lat	disclaim.doc			
Library Directory	/xxxxxxxx						
		cat	lht	grt	dqx	dqt	lineage.doc
Coverage Directory	/bnd						
	fcs	polbndl2.jti	txt.fit				
	polbnda.aft	polbndl3.jti	txt_fit1.ft				
	f_code1.ati	polbndl.lfx	txt_fit2.ft				
	polbnda.ajt	dqline.lft	txt_fit3.ft				
	polbnda1.jt	dqf_code.lti	txt_fit4.ft				
	polbnda2.jt	dqline.ljt	dqdescr.rat				
	polbnda3.jt	dqline1.jti	dqdescr.rax				
	polbnda.afx	dqline2.jti	symbol.rat				
	dqarea.aft	dqline3.jti	char.vdt				
	dqf_code.at	edg.fit	int.vdt				
	dqarea.ajt	edg_fit1.fti	fca				
	dqarea1.jti	edg_fit2.fti	fcx				
	dqarea2.jti	edg_fit3.fti					
	dqarea3.jti	edg_fit4.fti					
	fac.fit	markersp.pft					
	fac_fit1.ft	f_code1.pti					
	fac_fit2.ft	tile1_id.pti					
	fac_fit3.ft	end1_id.pti					
	fac_fit4.ft	dqpoint.pft					
	barrierl.lf	dqf_code.pti					
	f_code1.lti	dqtil_id.pti					
	barrierl.lj	dqend_id.pti					
	barriel1.jt	end.fit					
	barriel2.jt	end_fit1.fti					
	barriel3.jt	end_fit2.fti					
	coastl.lft	end_fit3.fti					
	coastl.ljt	end_fit4.fti					
	coastl1.jti	bndtxt.tft					
	coastl2.jti	f_code1.tti					
	coastl3.jti	tile1_id.tti					
	polbndl.lft	txt1_id.tti					
	f_code3.lti	dqtext.tft					
	polbndl.ljt	dqtil_id.tti					
	polbndl1.jt	dqtxt_id.tti					
Primitive Directory xxxxxxxx/ (tile name)	fsi	nsi					
	fbr	end					
	fac	csi					
	rng	cnd					
	esi	cnx					
	ebr	tsi					
	edx	txx					
	edg	txt					

TABLE F-1. UVMap Directory structure and file content (Continued).

Database Directory	/uvmap						
		dht	lat	disclaim.doc			
Library Directory	/xxxxxxxx						
		cat	lht	grt	dqx	dqt	lineage.doc
Coverage Directory	/elev						
	fcs	dqtext.tft					
	contourl.lf	dqtil_id.tti					
	contourl.lj	dqtxt_id.tti					
	contoul1.jt	txt.fit					
	contoul2.jt	txt_fit1.fti					
	contoul3.jt	txt_fit2.fti					
	dqline.lft	txt_fit3.fti					
	dqf_code.lt	txt_fit4.fti					
	dqline.ljt	dqdescr.rat					
	dqline1.jti	dqdescr.rax					
	dqline2.jti	symbol.rat					
	dqline3.jti	char.vdt					
	edg.fit	int.vdt					
	edg_fit1.ft	fca					
	edg_fit2.ft	fcx					
	edg_fit3.ft						
	edg_fit4.ft						
	elevp.pft						
	tile1_id.pt						
	end1_id.pti						
	dqpoint.pft						
	dqf_code.pt						
	dqtil_id.pt						
	dqend_id.pt						
	end.fit						
	end_fit1.ft						
	end_fit2.ft						
	end_fit3.ft						
	end_fit4.ft						
	elevtxt.tft						
	f_code1.tti						
	tile1_id.tt						
	txt1_id.tti						
Primitive Directory xxxxxxxx/ (tile name)	fsi	nsi					
	fbr	end					
	fac	csi					
	rng	cnd					
	esi	cnx					
	ebr	tsi					
	edx	txx					
	edg	txt					

TABLE F-1. UVMap Directory structure and file content (Continued).

Database Directory	/uvmap						
		dht	lat	disclaim.doc			
Library Directory	/xxxxxxxx						
		cat	lht	grt	dqx	dqt	lineage.doc
Coverage Directory	/hydro						
	fcs	misca1.jti	daml.lft	dqline.lft	hydrotxt.tf		
	coasta.aft	misca2.jti	daml.ljt	dqf_code.lti	f_code1.tti		
	coasta.ajt	misca3.jti	daml1.jti	dqline.ljt	tile1_id.tt		
	coasta1.jti	seastrta.aft	daml2.jti	dqline1.jti	txt1_id.tti		
	coasta2.jti	f_code7.ati	daml3.jti	dqline2.jti	dqtext.tft		
	coasta3.jti	seastrta.ajt	daml.lfx	dqline3.jti	dqtil_id.tt		
	coasta.afx	seastra1.jti	inshorel.lft	edg.fit	dqtxt_id.tt		
	dama.aft	seastra2.jti	inshorel.ljt	edg_fit1.fti	txt.fit		
	dama.ajt	seastra3.jti	inshorl1.jti	edg_fit2.fti	txt_fit1.ft		
	dama1.jti	watrcrsa.aft	inshorl2.jti	edg_fit3.fti	txt_fit2.ft		
	dama2.jti	f_code8.ati	inshorl3.jti	edg_fit4.fti	txt_fit3.ft		
	dama3.jti	watrcrsa.ajt	miscl.lft	arrowp.pft	txt_fit4.ft		
	dama.afx	watrcra1.jti	f_code4.lti	tile1_id.pti	dqdescr.rat		
	inunda.aft	watrcra2.jti	miscl.ljt	end1_id.pti	dqdescr.rax		
	inunda.ajt	watrcra3.jti	miscl1.jti	miscp.pft	symbol.rat		
	inunda1.jti	watrcrsa.afx	miscl2.jti	f_code2.pti	char.vdt		
	inunda2.jti	dqarea.aft	miscl3.jti	tile2_id.pti	int.vdt		
	inunda3.jti	dqf_code.ati	seastrtl.lft	end2_id.pti	fca		
	lakeresa.aft	dqarea.ajt	f_code5.lti	wellsprp.pft	fcx		
	f_code4.ati	dqarea1.jti	seastrtl.ljt	f_code3.pti			
	lakeresa.ajt	dqarea2.jti	seastrl1.jti	tile3_id.pti			
	lakerea1.jti	dqarea3.jti	seastrl2.jti	end3_id.pti			
	lakerea2.jti	fac.fit	seastrl3.jti	wellsprp.pfx			
	lakerea3.jti	fac_fit1.fti	watrcrsl.lft	dqpoint.pft			
	lakeresa.afx	fac_fit2.fti	f_code6.lti	dqf_code.pti			
	locka.aft	fac_fit3.fti	watrcrsl.ljt	dqtil_id.pti			
	locka.ajt	fac_fit4.fti	watrcrl1.jti	dqend_id.pti			
	locka1.jti	aquedctl.lft	watrcrl2.jti	end.fit			
	locka2.jti	aquedctl.ljt	watrcrl3.jti	end_fit1.fti			
	locka3.jti	aquedcl1.jti	watrcrsl.lfx	end_fit2.fti			
	locka.afx	aquedcl2.jti		end_fit3.fti			
	misca.aft	aquedcl3.jti		end_fit4.fti			
	f_code6.ati	aquedctl.lfx					
	misca.ajt						
Primitive Directory xxxxxxxx/ (tile name)	fsi	nsi					
	fbr	end					
	fac	csi					
	rng	cnd					
	esi	cnx					
	ebr	tsi					
	edx	txx					
	edg	txt					

TABLE F-1. UVMap Directory structure and file content (Continued).

Database Directory	/uvmap						
		dht	lat	disclaim.doc			
Library Directory	/xxxxxxxx						
		cat	lht	grt	dqx	dqt	lineage.doc
Coverage Directory	/ind						
	fcs	processa.ajt	extracl1.jti	obstrp.pft	txt_fit4.ft		
	bldinda.aft	procesa1.jti	extracl2.jti	f_code4.pti	dqdescr.rat		
	bldinda.ajt	procesa2.jti	extracl3.jti	tile4_id.pti	dqdescr.rax		
	bldinda1.jt	procesa3.jti	extractl.lf	end4_id.pti	symbol.rat		
	bldinda2.jt	processa.af	indl.lft	rigwellp.pft	char.vdt		
	bldinda3.jt	storagea.aft	f_code3.lti	f_code5.pti	int.vdt		
	bldinda.afx	f_code7.ati	indl.ljt	tile5_id.pti	fca		
	cmpxinda.af	storagea.ajt	indl1.jti	end5_id.pti	fcx		
	cmpxinda.aj	storaga1.jti	indl2.jti	rigwellp.pfx			
	cmpxina1.jt	storaga2.jti	indl3.jti	storagep.pft			
	cmpxina2.jt	storaga3.jti	dqline.lft	f_code6.pti			
	cmpxina3.jt	storagea.af	dqf_code.lti	tile6_id.pti			
	cmpxinda.af	dqarea.aft	dqline.ljt	end6_id.pti			
	disposea.af	dqf_code.ati	dqline1.jti	storagep.pfx			
	f_code3.ati	dqarea.ajt	dqline2.jti	dqpoint.pft			
	disposea.aj	dqarea1.jti	dqline3.jti	dqf_code.pti			
	disposa1.jt	dqarea2.jti	edg.fit	dqtil_id.pti			
	disposa2.jt	dqarea3.jti	edg_fit1.fti	dqend_id.pti			
	disposa3.jt	fac.fit	edg_fit2.fti	end.fit			
	extracta.af	fac_fit1.fti	edg_fit3.fti	end_fit1.fti			
	f_code4.ati	fac_fit2.fti	edg_fit4.fti	end_fit2.fti			
	extracta.aj	fac_fit3.fti	bldindp.pft	end_fit3.fti			
	extraca1.jt	fac_fit4.fti	tile1_id.pti	end_fit4.fti			
	extraca2.jt	bldindl.lft	end1_id.pti	indtxt.tft			
	extraca3.jt	bldindl.ljt	bldindp.pfx	f_code1.tti			
	extracta.af	bldindl1.jti	cisternp.pft	tile1_id.tti			
	powrinda.af	bldindl2.jti	tile2_id.pti	txt1_id.tti			
	f_code5.ati	bldindl3.jti	end2_id.pti	dqtext.tft			
	powrinda.aj	bldindl.lfx	extractp.pft	dqtil_id.tti			
	powrina1.jt	extractl.lft	f_code3.pti	dqtxt_id.tti			
	powrina2.jt	f_code2.lti	tile3_id.pti	txt.fit			
	powrina3.jt	extractl.ljt	end3_id.pti	txt_fit1.fti			
	processa.af		extractp.pf	txt_fit2.fti			
	f_code6.ati			txt_fit3.fti			
Primitive Directory xxxxxxxx/ (tile name)	fsi	nsi					
	fbr	end					
	fac	csi					
	rng	cnd					
	esi	cnx					
	ebr	tsi					
	edx	txx					
	edg	txt					

TABLE F-1. UVMap Directory structure and file content (Continued).

Database Directory	/uvmap						
		dht	lat	disclaim.doc			
Library Directory	/xxxxxxxx						
		cat	lht	grt	dqx	dqt	lineage.doc
Coverage Directory	/phys						
	fcs	bluffl1.jti	dqend_id.pti				
	embanka.aft	bluffl2.jti	end.fit				
	embanka.ajt	bluffl3.jti	end_fit1.fti				
	embanka1.jt:	embankl.lft	end_fit2.fti				
	embanka2.jt:	f_code2.lti	end_fit3.fti				
	embanka3.jt:	embankl.ljt	end_fit4.fti				
	embanka.afx	embankl1.jti	phystxt.tft				
	grounda.aft	embankl2.jti	f_code1.tti				
	f_code2.ati	embankl3.jti	tile1_id.tti				
	grounda.ajt	faultl.lft	txt1_id.tti				
	grounda1.jt:	faultl.ljt	dqtext.tft				
	grounda2.jt:	faultl1.jti	dqtil_id.tti				
	grounda3.jt:	faultl2.jti	dqtxt_id.tti				
	grounda.afx	faultl3.jti	txt.fit				
	lndfrma.aft	faultl.lfx	txt_fit1.fti				
	f_code3.ati	dqline.lft	txt_fit2.fti				
	lndfrma.ajt	dqf_code.lti	txt_fit3.fti				
	lndfrma1.jt:	dqline.ljt	txt_fit4.fti				
	lndfrma2.jt:	dqline1.jti	dqdescr.rat				
	lndfrma3.jt:	dqline2.jti	dqdescr.rax				
	lndfrm1a.af:	dqline3.jti	symbol.rat				
	dqarea.aft	edg.fit	char.vdt				
	dqf_code.at:	edg_fit1.fti	int.vdt				
	dqarea.ajt	edg_fit2.fti	fca				
	dqarea1.jti	edg_fit3.fti	fcx				
	dqarea2.jti	edg_fit4.fti					
	dqarea3.jti	cavep.pft					
	fac.fit	tile1_id.pti					
	fac_fit1.ft:	end1_id.pti					
	fac_fit2.ft:	cavep.pfx					
	fac_fit3.ft:	dqpoint.pft					
	fac_fit4.ft:	dqf_code.pti					
	bluffl.lft	dqtil_id.pti					
	bluffl.ljt						
Primitive Directory xxxxxxxx/ (tile name)	fsi	edg	txx				
	fbr	nsi	txt				
	fac	end					
	rng	csi					
	esi	cnd					
	ebr	cnx					
	edx	tsi					

TABLE F-1. UVMap Directory structure and file content (Continued).

Database Directory	/uvmap						
		dht	lat	disclaim.doc			
Library Directory	/xxxxxxxx						
		cat	lht	grt	dqx	dqt	lineage.doc
Coverage Directory	/pop						
	fcs	mispopa.aft	fac.fit	edg.fit	end.fit		
	bldpopa.aft	f_code6.ati	fac_fit1.fti	edg_fit1.fti	end_fit1.fti		
	bldpopa.ajt	mispopa.ajt	fac_fit2.fti	edg_fit2.fti	end_fit2.fti		
	bldpopa1.jti	mispopa1.jti	fac_fit3.fti	edg_fit3.fti	end_fit3.fti		
	bldpopa2.jti	mispopa2.jti	fac_fit4.fti	edg_fit4.fti	end_fit4.fti		
	bldpopa3.jti	mispopa3.jti	bldpopl.lft	bldpopp.pft	poptxt.tft		
	bldpopa.afx	mispopa.afx	bldpopl.ljt	tile1_id.pti	f_code1.tti		
	builtupa.aft	mobilea.aft	bldpopl1.jti	end1_id.pti	tile1_id.tti		
	builtupa.ajt	mobilea.ajt	bldpopl2.jti	bldpopp.pfx	txt1_id.tti		
	builtua1.jti	mobilea1.jti	bldpopl3.jti	landmrkp.pft	dqtext.tft		
	builtua2.jti	mobilea2.jti	bldpopl.lfx	f_code2.pti	dqtil_id.tti		
	builtua3.jti	mobilea3.jti	landmrkl.lft	tile2_id.pti	dqtxt_id.tti		
	builtupa.afx	plazaa.aft	f_code2.lti	end2_id.pti	txt.fit		
	cmpxpopa.aft	plazaa.ajt	landmrkl.ljt	landmrkp.pfx	txt_fit1.fti		
	cmpxpopa.ajt	plazaa1.jti	landmrl1.jti	milp.pft	txt_fit2.fti		
	cmpxpoa1.jti	plazaa2.jti	landmrl2.jti	f_code3.pti	txt_fit3.fti		
	cmpxpoa2.jti	plazaa3.jti	landmrl3.jti	tile3_id.pti	txt_fit4.fti		
	cmpxpoa3.jti	plazaa.afx	landmrkl.lfx	end3_id.pti	dqdescr.rat		
	cmpxpopa.afx	ruinsa.aft	mill.lft	milp.pfx	dqdescr.rax		
	landmrka.aft	ruinsa.ajt	f_code3.lti	mispopp.pft	symbol.rat		
	f_code4.ati	ruinsa1.jti	mill.ljt	f_code4.pti	char.vdt		
	landmrka.ajt	ruinsa2.jti	mill1.jti	tile4_id.pti	int.vdt		
	landmra1.jti	ruinsa3.jti	mill2.jti	end4_id.pti	fca		
	landmra2.jti	ruinsa.afx	mill3.jti	mispopp.pfx	fcx		
	landmra3.jti	dqarea.aft	mill.lfx	ruinsp.pft			
	landmkra.afx	dqf_code.ati	dqline.lft	tile5_id.pti			
	mila.aft	dqarea.ajt	dqf_code.lti	end5_id.pti			
	f_code5.ati	dqarea1.jti	dqline.ljt	ruinsp.pfx			
	mila.ajt	dqarea2.jti	dqline1.jti	dqpoint.pft			
	mila1.jti	dqarea3.jti	dqline2.jti	dqf_code.pti			
	mila2.jti		dqline3.jti	dqtil_id.pti			
	mila3.jti			dqend_id.pti			
	mila.afx						
Primitive Directory xxxxxxxx/ (tile name)	fsi	nsi					
	fbr	end					
	fac	csi					
	rng	cnd					
	esi	cnx					
	ebr	tsi					
	edx	txx					
	edg	txt					

TABLE F-1. UVMap Directory structure and file content (Continued).

Database Directory	/uvmap						
		dht	lat	disclaim.doc			
Library Directory	/xxxxxxxx						
		cat	lht	grt	dqx	dqt	lineage.doc
Coverage Directory	/trans						
	fcs	roada1.jti	ferryl.lft	roadl1.jti	ferryc.pft	dqpoint.pft	
	aerofaca.aft	roada2.jti	ferryl.ljt	roadl2.jti	tile2_id.nti	dqf_code.pti	
	f_code1.ati	roada3.jti	ferryl1.jti	roadl3.jti	cnd2_id.nti	dqtil_id.pti	
	aerofaca.ajt	roada.afx	ferryl2.jti	roadl.lfx	ferryc.pfx	dqend_id.pti	
	aerofaa1.jti	stationa.aft	ferryl3.jti	trackl.lft	fordc.pft	end.fit	
	aerofaa2.jti	stationa.ajt	ferryl.lfx	trackl.ljt	tile3_id.nti	end_fit1.fti	
	aerofaa3.jti	statioa1.jti	fordl.lft	trackl1.jti	cnd3_id.nti	end_fit2.fti	
	aerofaca.afx	statioa2.jti	fordl.ljt	trackl2.jti	stationc.pft	end_fit3.fti	
	bridgea.aft	statioa3.jti	fordl1.jti	trackl3.jti	tile4_id.nti	end_fit4.fti	
	f_code2.ati	stationa.afx	fordl2.jti	traill.lft	cnd4_id.nti	transtxt.tft	
	bridgea.ajt	dqarea.aft	fordl3.jti	traill.ljt	stationc.pfx	f_code1.tti	
	bridgea1.jti	dqf_code.ati	pierl.lft	traill1.jti	f_code4.nti	tile1_id.tti	
	bridgea2.jti	dqarea.ajt	pierl.ljt	traill2.jti	tunenexc.pft	txt1_id.tti	
	bridgea3.jti	dqarea1.jti	pierl1.jti	traill3.jti	tile5_id.nti	dqtext.tft	
	bridgea.afx	dqarea2.jti	pierl2.jti	traml.lft	cnd5_id.nti	dqtil_id.tti	
	harbora.aft	dqarea3.jti	pierl3.jti	traml.ljt	tunenexc.pfx	dqtxt_id.tti	
	f_code3.ati	fac.fit	railrdl.lft	traml1.jti	dqnode.pft	txt.fit	
	harbora.ajt	fac_fit1.fti	f_code6.lti	traml2.jti	dqf_code.nti	txt_fit1.fti	
	harbora1.jti	fac_fit2.fti	railrdl.ljt	traml3.jti	dqtil_id.nti	txt_fit2.fti	
	harbora2.jti	fac_fit3.fti	railrdl1.jti	dqline.lft	dqcnd_id.nti	txt_fit3.fti	
	harbora3.jti	fac_fit4.fti	railrdl2.jti	dqf_code.lti	cnd.fit	txt_fit4.fti	
	prkraila.aft	aerofacl.lft	railrdl3.jti	dqline.ljt	cnd_fit1.fti	dqdescr.rat	
	f_code4.ati	f_code1.lti	railrdl.lfx	dqline1.jti	cnd_fit2.fti	dqdescr.rax	
	prkraila.ajt	aerofacl.ljt	rampl.lft	dqline2.jti	cnd_fit3.fti	symbol.rat	
	prkraia1.jti	aerofal1.jti	rampl.ljt	dqline3.jti	cnd_fit4.fti	char.vdt	
	prkraia2.jti	aerofal2.jti	rampl1.jti	edg.fit	lthsp.pft	int.vdt	
	prkraia3.jti	aerofal3.jti	rampl2.jti	edg_fit1.fti	tile1_id.pti	fca	
	prkraila.afx	bridgel.lft	rampl3.jti	edg_fit2.fti	end1_id.pti	fcx	
	roada.aft	f_code2.lti	roadl.lft	edg_fit3.fti	lthsp.pfx		
	f_code5.ati	bridgel.ljt	f_code8.lti	edg_fit4.fti	misaerop.pft		
	roada.ajt	bridgel1.jti	roadl.ljt	bridgec.pft	f_code2.pti		
		bridgel2.jti		tile1_id.nti	tile2_id.pti		
		bridgel3.jti		cnd1_id.nti	end2_id.pti		
		bridgel.lfx		bridgec.pfx	misaerop.pfx		
Primitive Directory xxxxxxxx/ (tile name)	fac	nsi					
	fbr	end					
	fsi	csi					
	rng	cnd					
	esi	cnx					
	ebr	tsi					
	edx	txx					
	edg	txt					

TABLE F-1. UVMap Directory structure and file content (Continued).

Database Directory	/uvmap						
		dht	lat	disclaim.doc			
Library Directory	/xxxxxxxx						
		cat	lht	grt	dqx	dqt	lineage.doc
Coverage Directory	/util						
	fcs	fac.fit	translnc.pft	utiltxt.tft			
	comma.aft	fac_fit1.fti	f_code1.nti	f_code1.tti			
	f_code1.ati	fac_fit2.fti	tile1_id.nti	tile1_id.tti			
	comma.ajt	fac_fit3.fti	cnd1_id.nti	txt1_id.tti			
	comma1.jti	fac_fit4.fti	translnc.pfx	dqtext.tft			
	comma2.jti	pipel.lft	dqnode.pft	dqtil_id.tti			
	comma3.jti	pipel.ljt	dqf_code.nti	dqtxt_id.tti			
	comma.afx	pipel1.jti	dqtil_id.nti	txt.fit			
	powrutla.aft	pipel2.jti	dqcnd_id.nti	txt_fit1.fti			
	powrutla.ajt	pipel3.jti	cnd.fit	txt_fit2.fti			
	powruta1.jti	powerl.lft	cnd_fit1.fti	txt_fit3.fti			
	powruta2.jti	powerl.ljt	cnd_fit2.fti	txt_fit4.fti			
	powruta3.jti	powerl1.jti	cnd_fit3.fti	dqdescr.rat			
	powrutla.afx	powerl2.jti	cnd_fit4.fti	dqdescr.rax			
	pumpinga.aft	powerl3.jti	commp.pft	symbol.rat			
	pumpinga.ajt	telel.lft	f_code1.pti	char.vdt			
	pumpina1.jti	telel.ljt	tile1_id.pti	int.vdt			
	pumpina2.jti	telel1.jti	end1_id.pti	fca			
	pumpina3.jti	telel2.jti	commp.pfx	fcx			
	pumpinga.afx	telel3.jti	pumpingp.pft				
	substata.aft	dqline.lft	tile2_id.pti				
	substata.ajt	dqf_code.lti	end2_id.pti				
	substaa1.jti	dqline.ljt	pumpingp.pfx				
	substaa2.jti	dqline1.jti	dqpoint.pft				
	substaa3.jti	dqline2.jti	dqf_code.pti				
	substata.afx	dqline3.jti	dqtil_id.pti				
	dqarea.aft	edg.fit	dqend_id.pti				
	dqf_code.ati	edg_fit1.fti	end.fit				
	dqarea.ajt	edg_fit2.fti	end_fit1.fti				
	dqarea1.jti	edg_fit3.fti	end_fit2.fti				
	dqarea2.jti	edg_fit4.fti	end_fit3.fti				
	dqarea3.jti		end_fit4.fti				
Primitive Directory xxxxxxxx/ (tile name)	fac	nsi					
	fbr	end					
	fsi	csi					
	rng	cnd					
	esi	cnx					
	ebr	tsi					
	edx	txx					
	edg	txt					

TABLE F-1. UVMap Directory structure and file content (Continued).

Database Directory	/uvmap						
		dht	lat	disclaim.do			
Library Directory	/xxxxxxxx						
		cat	lht	grt	dqx	dqt	lineage.doc
Coverage Directory	/veg						
	fcs	dqarea.aft	edg_fit2.fti				
	cropa.aft	dqf_code.ati	edg_fit3.fti				
	cropa.ajt	dqarea.ajt	edg_fit4.fti				
	cropa1.jti	dqarea1.jti	vegtxt.tft				
	cropa2.jti	dqarea2.jti	f_code1.tti				
	cropa3.jti	dqarea3.jti	tile1_id.tti				
	grassa.aft	fac.fit	txt1_id.tti				
	f_code2.ati	fac_fit1.fti	dqtext.tft				
	grassa.ajt	fac_fit2.fti	dqtil_id.tti				
	grassa1.jti	fac_fit3.fti	dqtxt_id.tti				
	grassa2.jti	fac_fit4.fti	txt.fit				
	grassa3.jti	firebrkl.lft	txt_fit1.fti				
	orcharda.aft	firebrkl.ljt	txt_fit2.fti				
	f_code3.ati	firebrl1.jti	txt_fit3.fti				
	orcharda.ajt	firebrl2.jti	txt_fit4.fti				
	orchara1.jti	firebrl3.jti	dqdescr.rat				
	orchara2.jti	hedgel.lft	dqdescr.rax				
	orchara3.jti	hedgel.ljt	symbol.rat				
	swampa.aft	hedgel1.jti	char.vdt				
	f_code4.ati	hedgel2.jti	int.vdt				
	swampa.ajt	hedgel3.jti	fca				
	swampa1.jti	dqline.lft	fcx				
	swampa2.jti	dqf_code.lti					
	swampa3.jti	dqline.ljt					
	treesa.aft	dqline1.jti					
	treesa.ajt	dqline2.jti					
	treesa1.jti	dqline3.jti					
	treesa2.jti	edg.fit					
	treesa3.jti	edg_fit1.fti					
	treesa.afx						
Primitive Directory xxxxxxxx/ (tile name)	fac	edg					
	fbr	csi					
	fsi	cnd					
	rng	cnx					
	esi	tsi					
	ebr	txx					
	edx	txt					

TABLE F-1. UVMap Directory structure and file content (Continued).

Database Directory	/uvmap						
		dht	lat	disclaim.doc			
Library Directory	/xxxxxxxx						
		cat	lht	grt	dqx	dqt	lineage.doc
Coverage Directory	/dq		/tileref	/libref			
	fcs	symbol.rat	fcs	fcs			
	dqarea.aft	char.vdt	tileref.aft	libref.lft			
	dqarea.ajt	int.vdt	tilereft.tft	libreft.tft			
	dqarea1.jti		fsi	esi			
	dqarea2.jti		fbr	ebr			
	dqarea3.jti		fac	edx			
	dqarea.afx		rng	edg			
	dqarea.rat		esi	csi			
	dqarea.rax		ebr	cnd			
	dqline.lft		edx				
	dqline.ljt		edg	tsi			
	dqline1.jti		csi	txx			
	dqline2.jti		cnd	txt			
	dqline3.jti		tsi				
	dqline.rat		txx				
	dqline.rax		txt				
	dqtxt.tft						
	tile1_id.tt:						
	txt1_id.tti						
Primitive Directory xxxxxxxx/ (tile name)	fsi	csi					
	fbr	cnd					
	fac	cnx					
	rng	tsi					
	esi	txx					
	ebr	txt					
	edx						
	edg						

UVMAP FEATURES

G.1 SCOPE

G.1.1 Scope. This appendix provides information on the feature and attribute organization of the data dictionary for the UVMap product. It is a mandatory part of this specification. The information contained herein is intended for compliance.

G.2 APPLICABLE DOCUMENTS

This section is not applicable to this appendix.

G.3 UVMap FEATURES.

G.3.1 FACC feature code by coverage and feature types. The following table contains all valid FACC codes and primitive types for each coverage in UVMap data libraries.

TABLE G-1. UVMap FACC codes by coverage and feature type.

LAYER	FACC Code	Feature Name	END	CND	EDG	FAC	TXT
bnd	AL070	Fence			X		
bnd	AL260	Wall			X		
bnd	BA010	Coastline/Shoreline			X		
bnd	FA000	Administrative Boundary			X		
bnd	FA001	Administrative Area				X	
bnd	FA020	Armistice Line			X		
bnd	FA070	Demilitarized Zone				X	
bnd	ZB020	Benchmark	X				
bnd	ZB035	Control Point/Control Station	X				
bnd	ZD040	Named Location					X
bnd	ZD045	Text Description					X
dq	ZD045	Text Description					X
elev	CA010	Contour Line (Land)			X		
elev	CA030	Spot Elevation	X				
elev	ZD040	Named Location					X
elev	ZD045	Text Description					X
hydro	AA050	Well	X				
hydro	AQ065	Culvert			X	X	
hydro	BA040	Water (Except Inland)				X	
hydro	BB040	Breakwater/Groyne			X	X	
hydro	BB140	Jetty			X	X	
hydro	BB230	Seawall			X		
hydro	BG010	Current Flow	X				
hydro	BH010	Aqueduct	X		X		
hydro	BH020	Canal			X	X	
hydro	BH030	Ditch			X	X	
hydro	BH080	Lake/Pond				X	

TABLE G-1. UVMap FACC codes by coverage and feature type (Continued).

LAYER	FACC Code	Feature Name	END	CND	EDG	FAC	TXT
hydro	BH090	Land Subject to Inundation				X	
hydro	BH100	Moat				X	
hydro	BH110	Penstock			X		
hydro	BH130	Reservoir				X	
hydro	BH140	River/Stream			X	X	
hydro	BH165	Spillway	X		X	X	
hydro	BH170	Spring/Water-Hole	X				
hydro	BH210	Inland Shoreline			X		
hydro	BI020	Dam/Weir			X	X	
hydro	BI030	Lock				X	
hydro	BI040	Sluice Gate	X		X		
hydro	BI050	Water Intake Tower	X			X	
hydro	ZD040	Named Location					X
hydro	ZD045	Text Description					X
ind	AA010	Mine	X		X	X	
ind	AA012	Quarry	X		X	X	
ind	AA040	Rig/Superstructure	X				
ind	AA050	Well	X				
ind	AB000	Disposal Site/Waste Pile				X	
ind	AB010	Wrecking Yard/Scrap Yard				X	
ind	AC000	Processing Plant/Treatment Plant				X	
ind	AC020	Catalytic Cracker	X				
ind	AC030	Settling Basin/Sludge Pond				X	
ind	AF010	Chimney/Smokestack	X				
ind	AF020	Conveyor			X		
ind	AF030	Cooling Tower	X			X	
ind	AF040	Crane	X				
ind	AF070	Flare Pipe	X				
ind	AJ030	Feed Lot/Stockyard/Holding Pen				X	
ind	AJ050	Windmill	X				
ind	AL015	Building	X		X	X	
ind	AL045	Complex Outline				X	
ind	AL140	Particle Accelerator				X	
ind	AL240	Tower (Non-Communication)	X				
ind	AM010	Depot (Storage)	X			X	
ind	AM020	Grain Bin/Silo	X			X	
ind	AM030	Grain Elevator	X			X	
ind	AM040	Mineral Pile				X	
ind	AM060	Storage Bunker/Storage Mound	X			X	
ind	AM070	Tank	X			X	
ind	AM080	Water Tower	X			X	
ind	BH040	Filtration Beds/Aeration Beds				X	
ind	BH050	Fish Hatchery/Fish Farm/Marine Farm				X	

TABLE G-1. UVMap FACC codes by coverage and feature type (Continued).

LAYER	FACC Code	Feature Name	END	CND	EDG	FAC	TXT
ind	BH060	Flume			X		
ind	BH155	Salt Evaporator				X	
ind	BI010	Cistern	X				
ind	ZD040	Named Location					X
ind	ZD045	Text Description					X
phys	BA020	Foreshore				X	
phys	BA030	Island				X	
phys	BA050	Beach				X	
phys	BH150	Salt Pan				X	
phys	BH160	Sebkha				X	
phys	DA005	Asphalt Lake				X	
phys	DA010	Ground Surface Element				X	
phys	DB010	Bluff/Cliff/Escarpment			X		
phys	DB030	Cave	X			X	
phys	DB070	Cut			X		
phys	DB090	Embankment/Fill			X	X	
phys	DB110	Fault			X		
phys	DB170	Sand Dune/Sand Hills				X	
phys	DB200	Gully/Gorge				X	
phys	ZD040	Named Location					X
phys	ZD045	Text Description					X
pop	AH010	Bastion/Rampart/Fortification	X		X	X	
pop	AH050	Fortification	X		X	X	
pop	AH060	Underground Bunker	X		X	X	
pop	AI020	Mobile Home/Mobile Home Park				X	
pop	AK020	Amusement Park Attraction	X				
pop	AK030	Amusement Park				X	
pop	AK040	Athletic Field				X	
pop	AK060	Campground/Campsite				X	
pop	AK070	Drive In Theater				X	
pop	AK090	Fairgrounds				X	
pop	AK100	Golf Course				X	
pop	AK110	Grandstand				X	
pop	AK120	Park				X	
pop	AK130	Race Track			X	X	
pop	AK150	Ski Jump	X		X		
pop	AK160	Stadium/Amphitheater				X	
pop	AK170	Swimming Pool				X	
pop	AK180	Zoo/Safari Park				X	
pop	AL015	Building	X		X	X	
pop	AL020	Built-Up Area				X	
pop	AL030	Cemetery	X			X	
pop	AL045	Complex Outline				X	
pop	AL100	Hut	X				
pop	AL120	Missile Site	X		X	X	

TABLE G-1. UVMap FACC codes by coverage and feature type (Continued).

LAYER	FACC Code	Feature Name	END	CND	EDG	FAC	TXT
pop	AL130	Monument	X			X	
pop	AL135	Native Settlement	X			X	
pop	AL170	Plaza/City Square				X	
pop	AL200	Ruins	X			X	
pop	AL250	Underground Dwelling	X			X	
pop	AQ150	Flight of Steps				X	
pop	AT020	Early Warning Radar Site	X		X	X	
pop	AT045	Radar Transmitter	X		X	X	
pop	BH075	Fountain	X			X	
pop	FA015	Firing Range/Gunnery Range	X		X	X	
pop	ZD040	Named Location					X
pop	ZD045	Text Description					X
trans	AN010	Railroad			X		
trans	AN050	Railroad Siding/Railroad Spur			X		
trans	AN060	Railroad Yard/Marshalling Yard				X	
trans	AN075	Railroad Turntable				X	
trans	AP010	Cart Track			X		
trans	AP020	Interchange			X	X	
trans	AP030	Road			X	X	
trans	AP040	Gate		X			
trans	AP050	Trail			X		
trans	AQ010	Aerial Cableway Lines/Ski Lift Lines			X		
trans	AQ040	Bridge/Overpass/Viaduct		X	X	X	
trans	AQ060	Control Tower	X				
trans	AQ070	Ferry Crossing		X	X		
trans	AQ090	Entrance/Exit		X			
trans	AQ110	Mooring Mast	X				
trans	AQ125	Station (Miscellaneous)		X		X	
trans	AQ130	Tunnel			X	X	
trans	AQ140	Vehicle Storage/Parking Area				X	
trans	BB090	Drydock				X	
trans	BB190	Pier/Wharf/Quay			X	X	
trans	BB240	Slipway/Patent Slip			X		
trans	BC050	Lighthouse	X				
trans	BH070	Ford		X	X		
trans	GB005	Airport/Airfield	X			X	
trans	GB010	Airport Lighting	X				
trans	GB015	Apron/Hardstand				X	
trans	GB030	Helicopter Landing Pad	X			X	
trans	GB035	Heliport				X	
trans	GB045	Overrun/Stopway			X	X	
trans	GB050	Revetment (Airfield)			X	X	
trans	GB055	Runway			X	X	
trans	GB075	Taxiway			X	X	

TABLE G-1. UVMap FACC codes by coverage and feature type (Continued).

LAYER	FACC Code	Feature Name	END	CND	EDG	FAC	TXT
trans	ZD040	Named Location					X
trans	ZD045	Text Description					X
util	AD010	Power Plant				X	
util	AD030	Substation/Transformer Yard		X		X	
util	AQ113	Pipeline/Pipe			X		
util	AQ116	Pumping Station	X			X	
util	AT010	Disk/Dish	X			X	
util	AT030	Power Transmission Line			X		
util	AT040	Power Transmission Pylon		X			
util	AT050	Communication Building	X			X	
util	AT060	Telephone Line/Telegraph Line			X		
util	AT070	Telephone-Telegraph Pylon/Pole		X			
util	AT080	Communication Tower	X				
util	ZD040	Named Location					X
util	ZD045	Text Description					X
veg	BH015	Bog				X	
veg	BH077	Hummock				X	
veg	BH095	Marsh/Swamp				X	
veg	EA010	Cropland				X	
veg	EA020	Hedgerow			X		
veg	EA030	Nursery				X	
veg	EA040	Orchard/Plantation				X	
veg	EA050	Vineyards				X	
veg	EA055	Hops				X	
veg	EB010	Grassland				X	
veg	EB020	Scrub/Brush				X	
veg	EC010	Bamboo/Cane				X	
veg	EC030	Trees				X	
veg	EC040	Cleared Way/Cut Line/Firebreak			X		
veg	EE000	Miscellaneous Vegetation				X	
veg	ZD040	Named Location					X
veg	ZD045	Text Description					X

G.3.2 Description of features. The following table contains all valid attributes for each FACC feature code in UVMap data libraries.

TABLE G-2. UVMAP FACC codes and attributes.

LAYER	Feature Name	FACC Code	Attr.	END	CND	EDG	FAC	TXT
bnd	Fence	AL070	pht			X		
bnd	Wall	AL260	pht			X		
bnd	Coastline/Shoreline	BA010	exs			X		
			slt			X		
			vdc			X		
bnd	Administrative Boundary	FA000	acc			X		
			nm3			X		
			nm4			X		
			use			X		
bnd	Administrative Area	FA001	acc				X	
			nm3				X	
			nm4				X	
			use				X	
bnd	Armistice Line	FA020	acc			X		
			nm3			X		
			nm4			X		
			use			X		
bnd	Demilitarized Zone	FA070	acc				X	
			nm3				X	
			nm4				X	
bnd	Benchmark	ZB020	cpa	X				
			zv2	X				
bnd	Control Point/Control Station	ZB035	cpa	X				
			zv2	X				
bnd	Named Location	ZD040	-					X
bnd	Text Description	ZD045	-					X
dq	Text Description	ZD045	-					X
elev	Contour Line (Land)	CA010	hqc			X		
			mcc			X		
			zv2			X		
elev	Spot Elevation	CA030	acc	X				
			ela	X				
			zv2	X				
elev	Named Location	ZD040	-					X
elev	Text Description	ZD045	-					X
hydro	Well	AA050	exs	X				
			hyc	X				
			nam	X				
			pro	X				
			scc	X				
			wft	X				

TABLE G-2. UVMAP FACC codes and attributes (Continued).

LAYER	Feature Name	FACC Code	Attr.	END	CND	EDG	FAC	TXT
hydro	Culvert	AQ065	-			X	X	
hydro	Water (Except Inland)	BA040	nam				X	
hydro	Breakwater/Groyne	BB040	vrr			X	X	
			wid			X		
hydro	Jetty	BB140	vrr			X	X	
			wid			X		
hydro	Seawall	BB230	-			X		
hydro	Current Flow	BG010	aoo	X				
			cur	X				
			sgc	X				
hydro	Aqueduct	BH010	atc			X		
			exs	X		X		
			loc	X		X		
			nam	X		X		
			tra	X		X		
			wid			X		
hydro	Canal	BH020	acc				X	
			exs			X	X	
			hyc			X	X	
			nam			X	X	
			wid			X		
hydro	Ditch	BH030	hyc			X	X	
			wid			X		
hydro	Lake/Pond	BH080	ara				X	
			arh				X	
			hyc				X	
			nam				X	
			scc				X	
			zv2				X	
hydro	Land Subject to Inundation	BH090	ara				X	
			arh				X	
			hoc				X	
hydro	Moat	BH100	ara				X	
			arh				X	
			exs				X	
			hyc				X	
			nam				X	
			scc				X	
			zv2				X	
hydro	Penstock	BH110	loc			X		
hydro	Reservoir	BH130	ara				X	
			arh				X	
			exs				X	
			hyc				X	
			nam				X	

TABLE G-2. UVMAP FACC codes and attributes (Continued).

LAYER	Feature Name	FACC Code	Attr.	END	CND	EDG	FAC	TXT
hydro	River/Stream	BH140	acc			X	X	
			exs			X	X	
			hyc			X	X	
			nam			X	X	
			wid			X		
hydro	Spillway	BH165	len	X				
			wid	X				
			loc			X		
			-				X	
hydro	Spring/Water-Hole	BH170	exs	X				
			hyc	X				
			scc	X				
			swt	X				
hydro	Inland Shoreline	BH210	ahc			X		
			exs			X		
			slt			X		
hydro	Dam/Weir	BI020	exs			X		
			mcc			X	X	
			nam			X	X	
			tuc			X	X	
			wid			X		
hydro	Lock	BI030	exs				X	
			nam				X	
hydro	Sluice Gate	BI040	len	X				
			wid	X				
			-			X		
hydro	Water Intake Tower	BI050	-	X			X	
hydro	Named Location	ZD040	-					X
hydro	Text Description	ZD045	-					X
ind	Mine	AA010	ara	X		X	X	
			arh	X		X	X	
			exs	X		X	X	
			min	X		X	X	
			nam	X		X	X	
			pro	X		X	X	
			wid	X		X		
ind	Quarry	AA012	ara	X		X	X	
			arh	X		X	X	
			exs	X		X	X	
			min	X		X	X	
			nam	X		X	X	
			pro	X		X	X	
			wid	X		X		

TABLE G-2. UVMAP FACC codes and attributes (Continued).

LAYER	Feature Name	FACC Code	Attr.	END	CND	EDG	FAC	TXT
ind	Rig/Superstructure	AA040	hgt	X				
			loc	X				
			pro	X				
ind	Well	AA050	exs	X				
			nam	X				
			pro	X				
ind	Disposal Site/Waste Pile	AB000	ara				X	
			arh				X	
			exs				X	
			pro				X	
ind	Wrecking Yard/Scrap Yard	AB010	ara				X	
			arh				X	
			exs				X	
ind	Processing Plant/Treatment Plant	AC000	ara				X	
			arh				X	
			exs				X	
			nam				X	
			pro				X	
ind	Catalytic Cracker	AC020	hgt	X				
ind	Settling Basin/Sludge Pond	AC030	ara				X	
			arh				X	
			exs				X	
			nam				X	
ind	Chimney/Smokestack	AF010	hgt	X				
			len	X				
ind	Conveyor	AF020	-			X		
ind	Cooling Tower	AF030	hgt	X				
			len	X			X	
ind	Crane	AF040	hgt	X				
			len	X				
ind	Flare Pipe	AF070	hgt	X				
ind	Feed Lot/Stockyard/Holding Pen	AJ030	ara				X	
			arh				X	
			exs				X	
ind	Windmill	AJ050	-	X				
ind	Building	AL015	ara	X			X	
			arh	X			X	
			bfc	X		X	X	
			exs	X		X	X	
			hgt	X		X	X	
			idn	X		X	X	
			len	X				
			nam	X		X	X	

TABLE G-2. UVMAP FACC codes and attributes (Continued).

LAYER	Feature Name	FACC Code	Attr.	END	CND	EDG	FAC	TXT
			pro	X		X	X	
			ssr	X		X	X	
			use	X		X	X	
			wid	X		X		
ind	Complex Outline	AL045	ara				X	
			arh				X	
			bfc				X	
			exs				X	
			hgt				X	
			idn				X	
			loc				X	
			nam				X	
			pro				X	
			use				X	
ind	Particle Accelerator	AL140	ara				X	
			arh				X	
ind	Tower (Non-Communication)	AL240	hgt	X				
			len	X				
			ttc	X				
			use	X				
ind	Depot (Storage)	AM010	idn	X			X	
			loc	X			X	
			nam	X			X	
			pro	X			X	
			use	X			X	
ind	Grain Bin/Silo	AM020	len	X				
			nam	X			X	
			use	X			X	
			wid	X				
ind	Grain Elevator	AM030	hgt	X			X	
			len	X				
			nam	X			X	
			use	X			X	
ind	Mineral Pile	AM040	nam				X	
			pro				X	
			use				X	
ind	Storage Bunker/Storage Mound	AM060	len	X				
			nam	X			X	
			pro	X			X	
			use	X			X	
ind	Tank	AM070	hgt	X			X	
			len	X				
			loc	X			X	
			nam	X			X	

TABLE G-2. UVMAP FACC codes and attributes (Continued).

LAYER	Feature Name	FACC Code	Attr.	END	CND	EDG	FAC	TXT
			pro	X			X	
			use	X			X	
ind	Water Tower	AM080	hgt	X			X	
			nam	X			X	
			use	X			X	
			wid	X				
ind	Filtration Beds/Aeration Beds	BH040	ara				X	
			arh				X	
			exs				X	
			nam				X	
ind	Fish Hatchery/Fish Farm/Marine Farm	BH050	ara				X	
			arh				X	
			exs				X	
			nam				X	
			pro				X	
ind	Flume	BH060	loc			X		
ind	Salt Evaporator	BH155	ara				X	
			arh				X	
ind	Cistern	BI010	-	X				
ind	Named Location	ZD040	-					X
ind	Text Description	ZD045	-					X
phys	Foreshore	BA020	ara				X	
			arh				X	
			mcc				X	
phys	Island	BA030	nam				X	
			ara				X	
			arh				X	
phys	Beach	BA050	ara				X	
			arh				X	
			mcc				X	
			nam				X	
phys	Salt Pan	BH150	ara				X	
			arh				X	
phys	Sebkha	BH160	ara				X	
			arh				X	
phys	Asphalt Lake	DA005	ara				X	
			arh				X	
phys	Ground Surface Element	DA010	ara				X	
			arh				X	
			mcc				X	
phys	Bluff/Cliff/Escarpment	DB010	pfh			X		
			sgc			X		

TABLE G-2. UVMAP FACC codes and attributes (Continued).

LAYER	Feature Name	FACC Code	Attr.	END	CND	EDG	FAC	TXT
phys	Cave	DB030	ara	X			X	
			arh	X			X	
			nam	X			X	
phys	Cut	DB070	dep			X		
phys	Embankment/Fill	DB090	hgt			X	X	
			nam				X	
			use			X	X	
			vrr			X	X	
			wid			X		
phys	Fault	DB110	nam			X		
			wid			X		
phys	Sand Dune/Sand Hills	DB170	ara				X	
			arh				X	
			sdo				X	
			ssc				X	
phys	Gully/Gorge	DB200	nam				X	
phys	Named Location	ZD040	-					X
phys	Text Description	ZD045	-					X
pop	Bastion/Rampart/Fortification	AH010	exs	X		X	X	
			loc	X		X	X	
			mcc	X		X	X	
			nam	X		X	X	
			ysu	X		X	X	
pop	Fortification	AH050	exs	X		X	X	
			loc	X		X	X	
			mcc	X		X	X	
			nam	X		X	X	
			ysu	X		X	X	
pop	Underground Bunker	AH060	exs	X		X	X	
			mcc	X		X	X	
			nam	X		X	X	
			ysu	X		X	X	
pop	Mobile Home/Mobile Home Park	AI020	ara				X	
			arh				X	
pop	Amusement Park Attraction	AK020	hgt	X				
			ssc	X				
pop	Amusement Park	AK030	ara				X	
			arh				X	
			nam				X	
pop	Athletic Field	AK040	ara				X	
			arh				X	
			nam				X	

TABLE G-2. UVMAP FACC codes and attributes (Continued).

LAYER	Feature Name	FACC Code	Attr.	END	CND	EDG	FAC	TXT
pop	Campground/Campsite	AK060	ara				X	
			arh				X	
			nam				X	
pop	Drive In Theater	AK070	ara				X	
			arh				X	
pop	Fairgrounds	AK090	ara				X	
			arh				X	
			nam				X	
pop	Golf Course	AK100	ara				X	
			arh				X	
			nam				X	
pop	Grandstand	AK110	-				X	
pop	Park	AK120	ara				X	
			arh				X	
			nam				X	
pop	Race Track	AK130	ara				X	
			arh				X	
			nam			X	X	
			wid			X		
pop	Ski Jump	AK150	hgt	X		X		
			len	X				
pop	Stadium/Amphitheater	AK160	ara				X	
			arh				X	
			hgt				X	
			nam				X	
pop	Swimming Pool	AK170	ara				X	
			arh				X	
pop	Zoo/Safari Park	AK180	ara				X	
			arh				X	
			nam				X	
pop	Building	AL015	ara	X			X	
			arh	X			X	
			bfc	X		X	X	
			ebt	X		X	X	
			exs	X		X	X	
			hgt	X		X	X	
			hwt	X		X	X	
			idn	X		X	X	
			len	X				
			nam	X		X	X	
			ssr	X		X	X	
			use	X		X	X	
			wid	X		X		

TABLE G-2. UVMAP FACC codes and attributes (Continued).

LAYER	Feature Name	FACC Code	Attr.	END	CND	EDG	FAC	TXT
pop	Built-Up Area	AL020	ara				X	
			arh				X	
			bac				X	
			cdv				X	
			dmr				X	
			exs				X	
			nam				X	
			ppl				X	
pop	Cemetery	AL030	ara	X			X	
			arh	X			X	
			coc	X				
			exs	X				
			nam	X			X	
			rel	X			X	
			wid	X				
pop	Complex Outline	AL045	ara				X	
			arh				X	
			bfc				X	
			ebt				X	
			exs				X	
			hgt				X	
			hwt				X	
			idn				X	
			loc				X	
			nam				X	
			use				X	
pop	Hut	AL100	-	X				
pop	Missile Site	AL120	exs	X		X	X	
			loc	X		X	X	
			mcc	X		X	X	
			mst	X		X	X	
			nam	X		X	X	
			ysu	X		X	X	
pop	Monument	AL130	ara				X	
			arh				X	
			coc	X				
			hgt	X			X	
			nam	X			X	
			ssc	X				
pop	Native Settlement	AL135	ara	X				
			arh	X				
			cfd				X	
			nam	X			X	

TABLE G-2. UVMAP FACC codes and attributes (Continued).

LAYER	Feature Name	FACC Code	Attr.	END	CND	EDG	FAC	TXT
			nas				X	
			ppt	X			X	
pop	Plaza/City Square	AL170	nam				X	
pop	Ruins	AL200	ara	X			X	
			arh	X			X	
			hgt	X			X	
			len	X				
			loc	X			X	
			nam	X			X	
			wid	X				
pop	Underground Dwelling	AL250	-	X				
			nam				X	
pop	Flight of Steps	AQ150	hgt				X	
			nam				X	
pop	Early Warning Radar Site	AT020	exs	X		X	X	
			loc	X		X	X	
			nam	X		X	X	
			ysu	X		X	X	
pop	Radar Transmitter	AT045	exs	X		X	X	
			loc	X		X	X	
			nam	X		X	X	
			ysu	X		X	X	
pop	Fountain	BH075	hgt	X			X	
			len	X				
			nam	X			X	
			wid	X				
pop	Firing Range/Gunnery Range	FA015	exs	X		X	X	
			frt	X		X	X	
			loc	X		X	X	
			mcc	X		X	X	
			nam	X		X	X	
			ysu	X		X	X	
pop	Named Location	ZD040	-					X
pop	Text Description	ZD045	-					X
trans	Railroad	AN010	acc			X		
			exs			X		
			gaw			X		
			loc			X		
			ltn			X		
			nam			X		
			rgc			X		
			rra			X		
			rrc			X		

TABLE G-2. UVMAP FACC codes and attributes (Continued).

LAYER	Feature Name	FACC Code	Attr.	END	CND	EDG	FAC	TXT
trans	Railroad Siding/Railroad Spur	AN050	exs			X		
			gaw			X		
			rgc			X		
			rra			X		
			rrc			X		
			rsa			X		
trans	Railroad Yard/Marshalling Yard	AN060	exs				X	
			nam				X	
trans	Railroad Turntable	AN075	exs				X	
			nam				X	
trans	Cart Track	AP010	wtc			X		
trans	Interchange	AP020	exs			X	X	
			loc			X	X	
			ltn			X	X	
			nam			X	X	
			rit			X	X	
			rst			X	X	
			rtn			X	X	
			tuc			X	X	
			use			X	X	
			wd1			X	X	
			wtc			X	X	
trans	Road	AP030	acc			X	X	
			exs			X	X	
			loc			X	X	
			ltn			X	X	
			med			X	X	
			nam			X	X	
			rst			X	X	
			rtn			X	X	
			tuc			X	X	
			use			X	X	
			wd1			X	X	
			wtc			X	X	
trans	Gate	AP040	gtc		X			
			loc		X			
			nam		X			
			tuc		X			
trans	Trail	AP050	wtc			X		
trans	Aerial Cableway Lines/Ski Lift Lines	AQ010	use			X		
trans	Bridge/Overpass/Viaduct	AQ040	bcc			X	X	
			bsc		X	X	X	
			bsm		X	X	X	
			exs		X	X	X	

TABLE G-2. UVMAP FACC codes and attributes (Continued).

LAYER	Feature Name	FACC Code	Attr.	END	CND	EDG	FAC	TXT
			lc1		X	X	X	
			lc2		X	X	X	
			lc3		X	X	X	
			lc4		X	X	X	
			len		X			
			mcc		X	X	X	
			nam		X	X	X	
			ohc		X	X	X	
			shc		X	X	X	
			tuc		X	X	X	
			wd1		X	X	X	
trans	Control Tower	AQ060	hgt	X				
			nam	X				
			tuc	X				
trans	Ferry Crossing	AQ070	exs		X	X		
			fcl		X	X		
			fer		X	X		
			nam		X	X		
			tuc		X	X		
trans	Entrance/Exit	AQ090	nam		X			
			ohc		X			
			tuc		X			
			wid		X			
trans	Mooring Mast	AQ110	hgt	X				
			nam	X				
trans	Station (Miscellaneous)	AQ125	loc		X		X	
			nam		X		X	
			tuc		X		X	
trans	Tunnel	AQ130	exs			X	X	
			nam			X		
			tuc			X	X	
trans	Vehicle Storage/Parking Area	AQ140	exs				X	
trans	Drydock	BB090	loc				X	
			use				X	
trans	Pier/Wharf/Quay	BB190	loc				X	
			use			X	X	
			wid			X		
trans	Slipway/Patent Slip	BB240	vrr			X		
			wid			X		
trans	Lighthouse	BC050	atn	X				
			exs	X				
			lcn	X				
			nam	X				
			per	X				

TABLE G-2. UVMAP FACC codes and attributes (Continued).

LAYER	Feature Name	FACC Code	Attr.	END	CND	EDG	FAC	TXT
trans	Ford	BH070	len		X			
			-			X		
trans	Airport/Airfield	GB005	ara				X	
			arh				X	
			cod				X	
			exs	X			X	
			nam	X			X	
			use	X			X	
			zv2	X			X	
trans	Airport Lighting	GB010	lfa	X				
			nam	X				
trans	Apron/Hardstand	GB015	-				X	
trans	Helicopter Landing Pad	GB030	ara				X	
			arh				X	
			cod				X	
			exs	X			X	
			mcc	X			X	
			nam	X			X	
			rst				X	
			use				X	
			zv2				X	
trans	Heliport	GB035	ara				X	
			arh				X	
			cod				X	
			exs				X	
			nam				X	
			use				X	
			zv2				X	
trans	Overrun/Stopway	GB045	-			X	X	
trans	Revetment (Airfield)	GB050	exs			X	X	
			mcc			X	X	
trans	Runway	GB055	ara				X	
			arh				X	
			exs			X	X	
			mcc			X	X	
			nam				X	
			rst			X	X	
			use				X	
			zv2			X	X	
trans	Taxiway	GB075	exs			X	X	
trans	Named Location	ZD040	-					X
trans	Text Description	ZD045	-					X

TABLE G-2. UVMAP FACC codes and attributes (Continued).

LAYER	Feature Name	FACC Code	Attr.	END	CND	EDG	FAC	TXT
util	Power Plant	AD010	ara				X	
			arh				X	
			hgt				X	
			nam				X	
			ppc				X	
util	Substation/Transformer Yard	AD030	ara				X	
			arh				X	
			exs		X		X	
			hgt		X		X	
			nam		X		X	
util	Pipeline/Pipe	AQ113	acc			X		
			exs			X		
			loc			X		
			pro			X		
util	Pumping Station	AQ116	idn	X			X	
			len	X				
			pro	X			X	
			wid	X				
util	Disk/Dish	AT010	hgt	X			X	
			use	X			X	
util	Power Transmission Line	AT030	acc			X		
			exs			X		
			kva			X		
			npl			X		
util	Power Transmission Pylon	AT040	exs		X			
			hgt		X			
			mcc		X			
			nam		X			
util	Communication Building	AT050	ara	X			X	
			arh	X			X	
			idn	X			X	
			len	X				
			nam	X			X	
			nst	X			X	
			use	X			X	
util	Telephone Line/Telegraph Line	AT060	exs			X		
			npl			X		
			use			X		
util	Telephone-Telegraph Pylon/Pole	AT070	exs		X			
			hgt		X			
			mcc		X			
			nam		X			
			use		X			

TABLE G-2. UVMAP FACC codes and attributes (Continued).

LAYER	Feature Name	FACC Code	Attr.	END	CND	EDG	FAC	TXT
util	Communication Tower	AT080	hgt	X				
			nam	X				
			nst	X				
			use	X				
util	Named Location	ZD040	-					X
util	Text Description	ZD045	-					X
veg	Bog	BH015	ara				X	
			arh				X	
			veg				X	
veg	Hummock	BH077	ara				X	
			arh				X	
veg	Marsh/Swamp	BH095	ara				X	
			arh				X	
			exs				X	
			veg				X	
veg	Cropland	EA010	ara				X	
			arh				X	
			ftc				X	
			veg				X	
veg	Hedgerow	EA020	-			X		
veg	Nursery	EA030	ara				X	
			arh				X	
veg	Orchard/Plantation	EA040	ara				X	
			arh				X	
			pro				X	
veg	Vineyards	EA050	ara				X	
			arh				X	
veg	Hops	EA055	ara				X	
			arh				X	
veg	Grassland	EB010	ara				X	
			arh				X	
veg	Scrub/Brush	EB020	ara				X	
			arh				X	
veg	Bamboo/Cane	EC010	ara				X	
			arh				X	
veg	Trees	EC030	ara				X	
			arh				X	
			coc				X	
			cod				X	
			dmt				X	
			exs				X	
			nam				X	

TABLE G-2. UVMAP FACC codes and attributes (Continued).

LAYER	Feature Name	FACC Code	Attr.	END	CND	EDG	FAC	TXT
			pht				X	
			sbc				X	
			tre				X	
veg	Cleared Way/Cut Line/Firebreak	EC040	wid			X		
veg	Miscellaneous Vegetation	EE000	ara				X	
			arh				X	
			mas				X	
veg	Named Location	ZD040	-					X
veg	Text Description	ZD045	-					X

INDEX

PARAGRAPH	SECTION	PAGE
Absolute Horizontal Accuracy.....	3.2.1	3
Absolute Vertical Accuracy.....	3.2.2	3
Accuracy.....	3.2	3
Acquisition Requirements.....	6.2	31
Acronyms.....	6.4.1	31
APPENDIX A		34
APPENDIX B		36
APPENDIX C		39
APPENDIX D		46
APPENDIX E		52
APPENDIX F		375
APPENDIX G		386
Applicable Documents.....	2	1
Applicable Documents.....	A.2	34
Applicable Documents.....	B.2	36
Applicable Documents.....	C.2	39
Applicable Documents.....	D.2	46
Applicable Documents.....	E.2	52
Applicable Documents.....	F.2	375
Applicable Documents.....	G.2	386
Boundaries Coverage.....	E.3.2	63
Changes from previous issue.....	6.7	32
Classification and Special Handling of Thematic Files.....	6.8	32
Continuity.....	3.6	5
Coordinate System.....	3.10	6
Coverage Attribute Table.....	C.3.2.1	40
Coverage Metadata.....	3.15.3.1	14
Coverage Table and File Order.....	E.3.1	52
Coverage-Level Directory Files.....	3.15.3	11
Cross Tile Topology.....	3.16.2	29
Data Density Levels.....	3.4	4
Data Dictionary Organization.....	A.3.1	34
Data Format.....	3.11	6
Data Library Reference Coverage and Tables.....	D.3.3	46
Data Quality Coverage.....	E.3.3	74
Data Quality Table.....	C.3.2.4	43
Database Description.....	3.12	6
Database Disclaimer Table.....	B.3.1.3	38
Database Header Table.....	B.3.1.2	37
Database Source and Extent.....	3.5	4
Database-Level Directory Files.....	3.15.1	9
Datum.....	3.3	4
Definitions.....	6.4	31
Description of features.....	G.3.2	391
Dimensions.....	3.8	5
Directories.....	3.13.1	7
Displaced Feature Symbols.....	3.2.4	4

INDEX (Continued)

PARAGRAPH	SECTION	PAGE
Distribution Medium	3.12.2	7
Elevation Coverage	E.3.4	81
FACC feature code by coverage and feature types	G.3.1	386
Feature and Attribute Coding Scheme	3.9	5
Feature Class Definition	3.15.4.1	16
Feature Class Structure Level	3.15.4	16
Feature Table Structure and Contents	3.15.4.2	19
File Structure	3.12.1	7
Final product quality	4.1.2	30
First Article	3.1	3
General Usage	6.1.1	31
General	2.1	1
Geographic Reference Table	C.3.2.3	41
Government Documents	2.2	1
Horizontal Datum	3.3.1	4
Hydrography Coverage	E.3.5	88
Indices	3.13.3	7
Industry Coverage	E.3.6	119
Intended Use	6.1	31
International Standardization Agreements (STANAG)	6.6.1	32
International Standardization Agreements	6.6	32
Libary Header Table	C.3.2.2	41
Library Attribute Table	B.3.1.1	36
Library Metadata	3.15.2.1	10
Library Reference Coverage Directory and Files	D.3.3.2	49
Library Reference Feature Class Schema Table	D.3.3.2.1	49
Library Reference Feature Tables	D.3.3.2.2	50
Library Reference Primitive Tables	D.3.3.2.3	51
Library-Level VPF Tables and Contents	C.3	39
Lineage Narrative Table	C.3.2.5	45
Naming Conventions	3.17	29
NIMA Customer Help Desk	6.9	33
Non-Government Publications	2.3	2
Notes regarding table format	A.3.2	34
Notes	6.0	31
Order of Precedence	2.4	3
Other Government documents, drawings, and publications	2.2.2	2
Packaging	5.0	30
Packaging	5.1	30
Phsiography Coverage	E.3.7	187
Population Coverage	E.3.8	204
Purpose	1.2	1
Quality Assurance	4.0	30
Reference Coverages	3.15.2.2	11
Relative Accuracy	3.2.3	4

INDEX (Continued)

PARAGRAPH	SECTION	PAGE
Requirements	3	3
Responsibility for compliance	4.1.1	30
Responsibility for inspection	4.1	30
SCOPE	1	1
Scope	1.1	1
SCOPE	A.1	34
Scope	A.1.1	34
SCOPE	B.1	36
Scope	B.1.1	36
SCOPE	C.1	39
Scope	C.1.1	39
SCOPE	D.1	46
Scope	D.1.1	46
SCOPE	E.1	52
Scope	E.1.1	52
SCOPE	F.1	375
Scope	F.1.1	375
SCOPE	G.1	386
Scope	G.1.1	386
Security Classification of Specifications	6.8.1	33
Specifications,standards and handbooks	2.2.1	1
Subject term (key word) listing	6.5	32
Supersession	6.3	31
Symbology Related Attribute Table	E.3.1.3	60
Symbology	E.3.1.2	60
Thematic Layer Organization	3.7	5
Tile Directory Description and Naming	3.16.1.2	27
Tile Reference Coverage Directory and Files	D.3.3.1	46
Tile Reference Feature Class Schema Table	D.3.3.1.1	47
Tile Reference Feature Tables	D.3.3.1.2	47
Tile Reference Primitive Tables	D.3.3.1.3	48
Tile Size	3.16.1.1	27
Transporation Coverage	E.3.9	278
Unit of Measure	3.8.1	5
Utilities Coverage	E.3.10	335
UVMap Data Dictionary Organization	A.3	34
UVMap Data Hierarchy	3.14.3	8
UVMap Data Quality Feature Classes in Thematic Data Coverages	E.3.1.1	54
UVMap Database-Level VPF Tables and Contents	B.3	36
UVMap Digital Files	3.14.1	8
UVMap Directory Organization	3.14	8
UVMap Features	G.3	386
UVMap Library Directories	3.14.2	8

INDEX (Continued)

PARAGRAPH	SECTION	PAGE
UVMap Library Directories.....	C.3.1	39
UVMap Reference Coverage.....	D.3	46
UVMap Thematic Coverage Director Record Layout.....	E.3	52
UVMap Tiling Conventions.....	3.16.1	27
UVMap Tiling Schemes.....	3.16	26
UVMap Tree Structure.....	F.3	375
Vegetation Coverage.....	E.3.11	358
Vertical Datum.....	3.3.2	4
VPF Structure Levels.....	3.15	9
VPF Table and File Structure.....	3.13	7
VPF Tables.....	3.13.2	7

LIST OF FIGURES

FIGURE		PAGE
1	Illustration of a VPF table	8
2	UVMap Database Structure-Level Tables and Files	9
3	UVMap library structure level	10
4	UVMap Coverage Level Roadmap	13
5	UVMap Tile Directory Location	26
6	Coordinates for a 15 degree by 15 degree cell of GEOREF system(FJ)	28
7	Example of coordinates for GEOREF 1 degree by 1 degree cell (FJBQ) for identifying UVMap tiles (FJBQ2825)	29

LIST OF TABLES

TABLE		PAGE
1	UVMap coverages by VPF structure level	5
2	UVMap database-level table, file names and descriptions	10
3	UVMap Library Tables, File Names and descriptions	11
4	Coverage, Directories and Descriptions for UVMap Thematic Data Coverages	14
5	UVMap Coverage-Level Metadata Tables and Description	14
6	Feature Attribute Table(fca) Definition	15
7	Format and example of content for Feature Index Table (fit)	15
8	Feature Table Suffixes	17
9	UVMap Coverages and Feature Classes	17
10	Format for a Point Feature Table(wellsprp.fit)	19
11	Format for a Node Feature Table (ferryc.pft)	20
12	Format for a Line Feature Table (bluffl.lft)	20
13	Format for an Area Feature Table (orcharda.aft)	20
14	Format for a Text Feature Table (hydrotxt.tft)	21
15	Format and example content for a Line Feature Join Table (bridge.ljt)	21
16	Primitive Tables and Associated Files	22
17	Format and example of Content for Entity Node Primitive Table (end)	22
18	Format and example of Content for Connected Node Primitive Table (end)	23
19	Format and example of Content for Edge (edg) Primitive Table24	
20	Format and example of Content for Face (fac) Primitive Table	24
21	Format and example of Content for Text (txt) Primitive Table	25
22	Format and example of content for Ring (rng) Table	25
23	Format and example of content for Bounding Rectangle Tables (fbr or ebr)	25
24	Naming conventions for UVMap Tables and Files	30
B-1	Format and content for Library Attribute Table	36
B-2	Format and content for Database Header Table (dht)	37
B-3	Format and sample content for Database Disclaimer Table (disclaim.doc)	38
C-1	Coverage Attribute Table	40
C-2	Format and sample content for example UVMap Library Header Table (lht)	41
C-3	Format and sample content for a UVMap Geographic Reference Table (grt)	42
C-4	Format and sample content for example Data Quality Table (dgt)	43
C-5	Format and sample content for Lineage Documentation Table (lineage.doc)	45

LIST OF TABLES (Continued)

TABLE		PAGE
D-1	Content and sample format for Tile Reference Feature Class Schema Table (fcs)	47
D-2	Format and sample content for Tile Reference Area Feature Table (tileref.aft)	47
D-3	Format and content for Tile Reference Text Feature Table (tilereft.tft)	48
D-4	Format and example of content for Tile Reference Text Primitive Table (txt)	48
D-5	Content and sample format for Library Reference Feature Class Schema Table (fcs)	49
D-6	Format and content for Libref Line Feature Table (libref.lft)	50
D-7	Format and content for Libref Text Feature Table (libref.tft)	50
D-8	Format and example of content for Libref Text Primitive Table (txt)	51
D-9	Library Reference Character Value Description Table	51
E-1	UVMap Coverages	52
E-2	UVMap Feature Tables	53
E-3	Data Quality Point Feature Table	55
E-4	Data Quality Node Feature Table	56
E-5	Data Quality Line Feature Table	57
E-6	Data Quality Area Feature Table	58
E-7	Data Qaulity Text Feature Table	59
E-8	Data Quality Description Related Attribute Table	60
E-9	Symbol Related Attribute Table	61
E-10	Content and format for Boundaries Coverage Feature Class Schema Table	63
E-11	Markers Point Feature Table	64
E-12	Barrier Line Feature Table	65
E-13	Coastline Line Feature Table	66
E-14	Political Boundary Line Feature Table	67
E-15	Political Boundary Area Feature Table	68
E-16	Boundaries Text Feature Table	69
E-17	Boundaries Feature Class Attribute Table	70
E-18	Boundaries Character Value Description Table	71
E-19	Boundaries Integer Value Description Table	72
E-20	Content and format for Data Quality Coverage Feature Class Schema Table	74
E-21	Data Quality Line Feature Table	75
E-22	Data Quality Line Related Attribute Table	76
E-23	Data Quality Area Feature Table	77
E-24	Data Quality Area Related Attribute Table	78
E-25	Data Quality Text Feature Table	79
E-26	Data Quality Character Value Description Table	80
E-27	Data Quality Integer Value Description Table	80
E-28	Content and format for Elevation Coverage Feature Class Schema Table	81
E-29	Elevation Point Feature Table	82

LIST OF TABLES (Continued)

TABLE		PAGE
E-30	Contour Line Feature Table	83
E-31	Elevation Text Feature Table	84
E-32	Elevation Feature Class Attribute Table	85
E-33	Elevation Character Value Description Table	86
E-34	Elevation Integer Value Description Table	87
E-35	Content and format for Hydrography Coverage Feature Class Schema Table	88
E-36	Arrow Point Feature Table	90
E-37	Miscellaneous Point Feature Table	91
E-38	Well Spring Point Feature Table	92
E-39	Aqueduct Line Feature Table	94
E-40	Dam Line Feature Table	96
E-41	Inland Shoreline Line Feature Table	97
E-42	Miscellaneous Line Feature Table	98
E-43	Sea Structure Line Feature Table	99
E-44	Water Course Line Feature Table	100
E-45	Coast Area Feature Table	101
E-46	Dam Area Feature Table	102
E-47	Inundation Area Feature Table	103
E-48	Lake Reservoir Area Feature Table	104
E-49	Lock Area Feature Table	106
E-50	Miscellaneous Area Feature Table	107
E-51	Sea Structure Area Feature Table	108
E-52	Water Course Area Feature Table	109
E-53	Hydrography Text Feature Table	110
E-54	Hydrography Feature Class Attribute Table	111
E-55	Hydrography Character Value Description Table	113
E-56	Hydrography Integer Value Description Table	115
E-57	Content and format for Industry Coverage Feature Class Schema Table	119
E-58	Buildings Point Feature Table	121
E-59	Cistern Point Feature Table	126
E-60	Extraction Point Feature Table	127
E-61	Obstruction Point Feature Table	129
E-62	Rig Well Point Feature Table	130
E-63	Storage Point Feature Table	131
E-64	Buildings Line Feature Table	134
E-65	Extraction Feature Table	139
E-66	Industry Line Feature Table	141
E-67	Buildings Area Feature Table	142
E-68	Complex Area Area Feature Table	147
E-69	Disposal Area Feature Table	152
E-70	Extraction Area Feature Table	153
E-71	Power Area Feature Table	155
E-72	Processing Area Feature Table	156
E-73	Storage Area Feature Table	159
E-74	Industry Text Feature Table	161
E-75	Industry Feature Class Attribute Table	162
E-76	Industry Character Value Description Table	164
E-77	Industry Integer Value Description Table	167

LIST OF TABLES (Continued)

TABLE		PAGE
E-78	Content and format for Physiography Coverage Feature Class Schema Table	187
E-79	Cave Point Feature Table	189
E-80	Bluff Line Feature Table	190
E-81	Embankment Line Feature Table	191
E-82	Fault Line Feature Table	192
E-83	Embankment Area Feature Table	193
E-84	Ground Area Feature Table	194
E-85	Landform Area Feature Table	196
E-86	Physiography Text Feature Table	198
E-87	Physiography Feature Class Attribute Table	199
E-88	Physiography Character Value Description Table	200
E-89	Physiography Integer Value Description Table	202
E-90	Content and format for the Population Coverage Feature Class Schema Table	204198
E-91	Building Point Feature Table	206
E-92	Landmark Point Feature Table	211
E-93	Military Point Feature Table	214
E-94	Miscellaneous Population Point Feature Table	217
E-95	Ruins Point Feature Table	218
E-96	Buildings Line Feature Table	220
E-97	Landmark Line Feature Table	225
E-98	Military Line Feature Table	226
E-99	Building Area Feature Table	230
E-100	Built-Up Area Area Feature Table	235
E-101	Complex Area Area Feature Table	237
E-102	Landmark Area Feature Table	242
E-103	Military Area Feature Table	246
E-104	Miscellaneous Population Area Feature Table	249
E-105	Mobile Home Area Feature Table	250
E-106	Plaza Area Feature Table	251
E-107	Ruins Area Feature Table	252
E-108	Population Text Feature Table	253
E-109	Population Feature Class Attribute Table	254
E-110	Population Character Value Description Table	256
E-111	Population Integer Value Description Table	260
E-112	Content and format for Transportation Coverage Feature Class Schema Table	278
E-113	Lighthouse Point Feature Table	281
E-114	Miscellaneous Aeronautical Point Feature Table	282
E-115	Bridge Node Feature Table	284
E-116	Ferry Crossing Node Feature Table	287
E-117	Ford Node Feature Table	288
E-118	Station Node Feature Table	289
E-119	Tunnel Entrance/Exit Node Feature Table	290
E-120	Aircraft Facility Line Feature Table	291
E-121	Bridge Line Feature Table	293
E-122	Ferry Crossing Line Feature Table	296
E-123	Ford Line Feature Table	297
E-124	Pier Line Feature Table	298

LIST OF TABLES (Continued)

TABLE		PAGE
E-125	Railroad Line Feature Table	299
E-126	Ramp Line Feature Table	301
E-127	Road Line Feature Table	302
E-128	Cart Track Line Feature Table	305
E-129	Trail Line Feature Table	305
E-130	Tram Line Feature Table	306
E-131	Aircraft Facility Area Feature Table	307
E-132	Bridge Area Feature Table	310
E-133	Harbor Area Feature Table	313
E-134	Parking/Rail Area Feature Table	314
E-135	Road Area Feature Table	315
E-136	Station Area Feature Table	318
E-137	Transportation Text Feature Table	319
E-138	Transportation Feature Class Attribute Table	320
E-139	Transportation Character Value Description Table	322
E-140	Transportation Integer Value Description Table	325
E-141	Content and format for Utilities Coverage Feature Class Schema Table	335
E-142	Communication Point Feature Table	337
E-143	Pumping Point Feature Table	339
E-144	Transmission Line Node Feature Table	340
E-145	Pipeline Line Feature Table	342
E-146	Power Line Feature Table	343
E-147	Telephone Line Feature Table	344
E-148	Communication Area Feature Table	345
E-149	Power Area Feature Table	347
E-150	Pumping Area Feature Table	348
E-151	Substation Area Feature Table	349
E-152	Utilities Text Feature Table	350
E-153	Utilities Feature Class Attribute Table	351
E-154	Utilities Character Value Description Table	353
E-155	Utilities Integer Value Description Table	355
E-156	Content and format for Vegetation Coverage Feature Class Schema Table	358
E-157	Firebreak Line Feature Table	360
E-158	Hedge Line Feature Table	360
E-159	Cropland Area Feature Table	361
E-160	Grassland Area Feature Table	362
E-161	Orchard Area Feature Table	364
E-162	Swamp Area Feature Table	366
E-163	Trees Area Feature Table	367
E-164	Vegetation Text Feature Table	369
E-165	Vegetation Feature Class Attribute Table	370
E-166	Vegetation Character Value Description Table	371
E-167	Vegetation Integer Value Description Table	373
F-1	UVMap Directory structure and file content	376
G-1	UVMap FACC codes by coverage and featue type	386
G-2	UVMap FACC codes and attributes	391

CONCLUDING MATERIAL

Custodians:
Air Force - 09
Army - TI
Navy - NO
Marine Corps – MC

Review Activities:
DISA - DC2
Air Force - 33
Navy - CG
DLA - DH
NSA - NS
NORAD - US

Preparing Activity:
NIMA - MP

Project MCGT-0266

STANDARDIZATION DOCUMENT IMPROVEMENT PROPOSAL

INSTRUCTIONS

1. The preparing activity must complete blocks 1, 2, 3, and 8. In block 1, both the document number and revision letter should be given.

2. The submitter of this form must complete blocks 4, 5, 6, and 7, and send to preparing activity.

3. The preparing activity must provide a reply within 30 days from receipt of the form.

NOTE: This form may not be used to request copies of documents, nor to request waivers, or clarification of requirements on current contracts. Comments submitted on this form do not constitute or imply authorization to waive any portion of the referenced document(s) or to amend contractual requirements.

I RECOMMEND A CHANGE:	1. DOCUMENT NUMBER	2. DOCUMENT DATE (YYYYMMDD)
	MIL-PRF-89035A	020801

3. DOCUMENT TITLE

URBAN VECTOR MAP (UVMap)

5. REASON FOR RECOMMENDATION

6. SUBMITTER

a. NAME *(Last, First, Middle Initial)*	b. ORGANIZATION	
c. ADDRESS *(Include Zip Code)*	d. TELEPHONE (Include Area Code) (1) Commercial (2) AUTOVON *(if applicable)*	**7. DATE SUBMITTED** (YYYYMMDD)

8. PREPARING ACTIVITY

NAME National Imagery and Mapping Agency	b. TELEPHONE *Include Area Code)* (1) Commercial (703) 262-4409 (2) AUTOVON 898-8539
c. ADDRESS *(Include Zip Code)* National Imagery and Mapping Agency, ATTN: National Center for Geospatial Intelligence Standards, MS P-24, 12310 Sunrise Valley Drive, Reston, VA 20191-3449	**IF YOU DO NOT RECEIVE A REPLY WITHIN 45 DAYS, CONTACT:** Defense Standardization Program Office (DLSC-LM) 8725 John J. Kingman road, Suite 2533, Ft. Belvoir, VA 22060-2533 Telephone (703) 767-6888 AUTOVON 427-6888