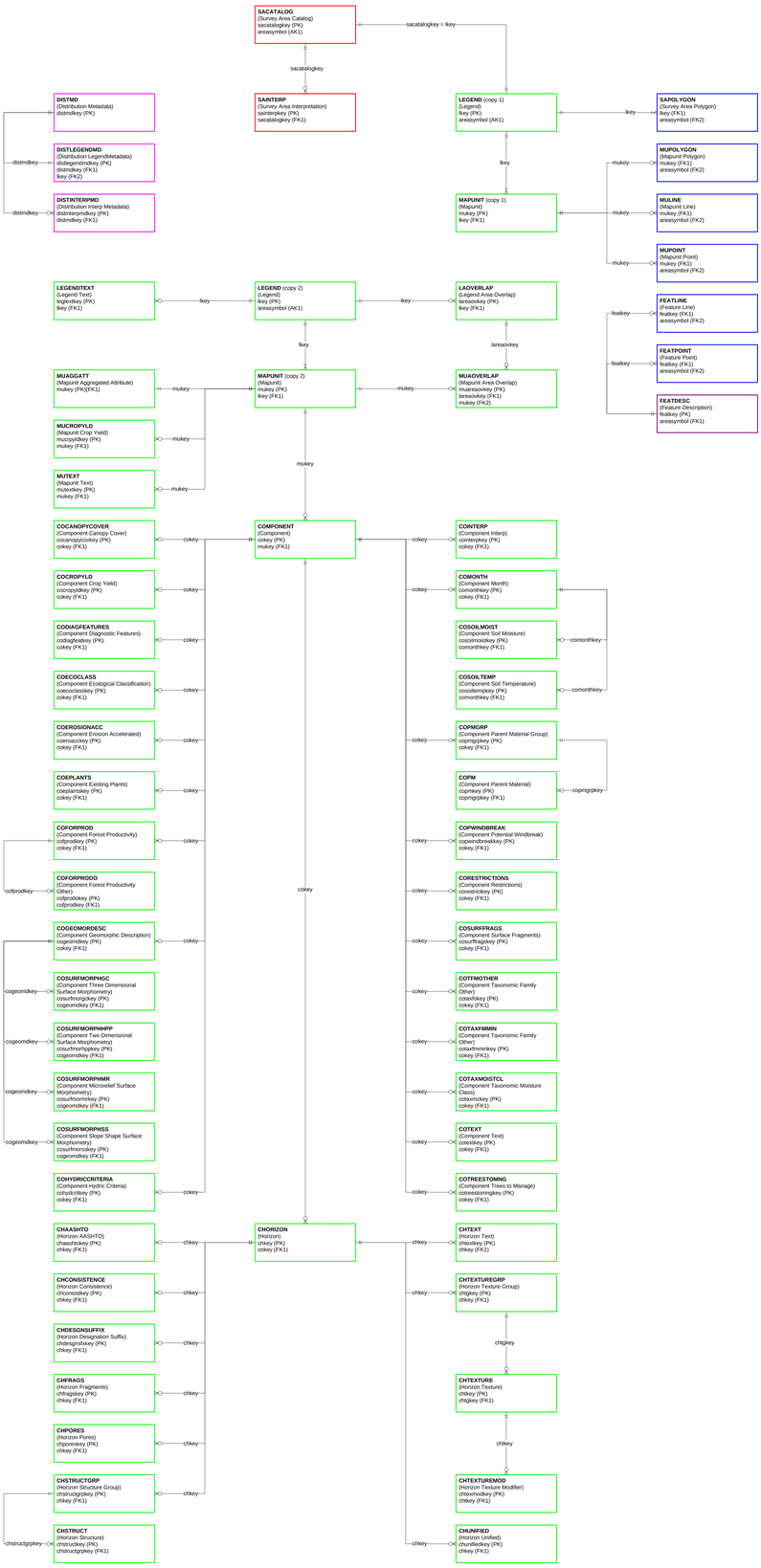
SSURGO 2.1 Data Model

The primary purpose of this data model is to show how tables are related. A table in this model shows only a handful of the columns that exist in that table. No diagram exists that shows all of the columns in a table. For the complete set of columns in a table, please see the tabular report titled "SSURGO Metadata – Table Columns".



Legend

TABLEPHYSICALNAME
(Table Logical Name)
columnphysicalname (PK)
columnphysicalname (AK#)
columnphysicalname (FK#)

TABLEPHYSICALNAME (copy n) - this is the nth copy of this table in this diagram, but all copies represent the same table in the database

columnphysicalname (PK) - column participates in primary key

columnphysicalname (AK#) – column participates in alternate unique key n

columnphysicalname (FK#) - column participates in foreign key n

Only those columns that participate in primary keys, major alternate unique keys and foreign keys are shown.

All columns that participate in a particular primary key, major alternate unique key or foreign key are included in this diagram.

For this data model, any column name that occurs in more than one table represents exactly the same concept in each table in which it occurs.

Table contains soil survey area metadata.

Table contains soil survey area metadata. (Table is obsolete but is retained for backwards compatability with SSURGO 2.0.)

Table contains soil tabular data.

Table contains soil spatial data and includes a geometry column. Table is not present in a SSURGO template database but the corresponding data is provided.*

Table contains soil spatial data but does not include a geometry column. This data may be imported into a SSURGO template database.**

TABLE A
A record in table A is related to one or more records in table B.

join column physical name

TABLE B
A record in table B is related to one and only one record in table A.

TABLE A
A record in table A is related to zero or more records in table B.

join column physical name

TABLE B
A record in table B is related to one and only one record in table A.

TABLE A
A record in table A is related to zero or one record in table B.

join column physical name

TABLE B
A record in table B is related to one and only one record in table A.

*Spatial data is provided either in ArcView Shape File format, as an ArcInfo Coverage or in ArcInfo Interchange format. The corresponding spatial tables do not appear in a SSURGO template database unless you have access to ArcGIS and use ArcCatalog to convert that database to a personal geodatabase, and then explicitly import the corresponding feature classes.

**Spot feature descriptions may be imported into a SSURGO template database, but they are not automatically imported with the soil tabular data. The macro "Import Feature Descriptions" must be used to import spot feature descriptions.