Boulder County Metadata Standards

All spatial data submitted to Boulder County must have metadata that adheres to the International Organization for Standardization (ISO) 19139 Metadata Standard, which is a content standard determining what information should be contained within the item's metadata. Metadata helps Boulder County better understand the data items contained within the spatial data, such as field name abbreviations or codes used within individual records.

You can find further information on ISO Metadata Standards, including links for the downloading the publicly available standards, at this link:

http://desktop.arcgis.com/en/arcmap/latest/manage-data/metadata/support-for-iso-metadata-standards.htm

Boulder County prefers metadata to be embedded within the gdb or .shp, but also will accept metadata in .xml, .doc, or .txt format.

Required Metadata

Overview
1. **Item Description**
   a. *Tags* – A set of terms that can be used to search for the resource. Terms should be provided as a comma-separated list.
   b. *Summary* (Purpose) – A brief narrative summary of the resource's intended use.
   c. *Description* (Abstract) – A brief narrative summary of the resource's content.
   d. *Use Limitation* – A brief narrative summary of the resource use limitations.
2. **Topics & Keywords**
   a. *Topic Categories* - Identifies the primary themes associated with the resource's content.
3. **Citation** - At least one citation date
   a. *Date Created* - The date when the cited resource was created.
   b. *Date Published* – The date when the cited resource was published.
   c. *Date Revised* - The date when the cited resource was revised.

Metadata
1. **Contacts**
   a. *Contact*

      i. At least one Contact Name which is the name of a person associated with the resource. The name of an individual, organization, or position must be provided.

     ii. At least one Contact Role which identifies the association between the responsible party and the resource.

Resources

1. Spatial Reference

    a. *Reference System*

       i. *Code* – An alphanumeric value that identifies an authoritative reference, or an instance in a namespace.

      ii. *Code Space* – The name or identifier of the authority responsible for the reference or namespace. For example, if the code identifies and EPSG-defined spatial reference the codespace would be "EPSG".

     iii. *Version* – The version of the detailed reference associated with the code. For example if the code identifies an EPSG-defined spatial reference the codespace would be the version number of the EPSG-database to which the coded value refers.

2. Distribution

    a. *Distribution Format*

       i. *Format Version* – The version of the transfer format, if appropriate; for example, a date or number.

3. Fields

    a. *Details*

       i. *Entity Type Definition* – A description of the features, objects, or cells contained by the dataset.

      ii. *Entity Type Definition Source* – The authority that provided the definition.

     iii. *Attribute Definition* (unless automatically generated) – A description of the data contained by the field.

     iv. *Attribute Definition Source* (unless automatically generated) – The authority that provided the definition.

      v. *Domain* - Attribute domains are rules that describe the legal values of a field type, providing a method for enforcing data integrity. Attribute domains are used to constrain the values allowed in any particular attribute for a table or feature class. For each attribute that has a domain, you must fill in the domain type. There are 3 types of domains and whichever one you pick requires different information.

         1. *Enumerated* - If you pick the enumerated domain, you must input:

            a. *Value* – Describes one of the repeating values that may occur in the field. Coded values may be stored in the column to represent a repeating value to use less storage space. A text column should only be described as having an enumerated domain if there is a defined range of specific values that are possible.

      i. *Definition* – A description of the value or code stored in this field
      ii. *Definition Source* - The authority that provided the description of the value.
2. *Range* - A range domain specifies a valid range of values for a numeric attribute. If you pick the range domain, you must input:
    a. *Minimum* - For numeric columns, the least value that can be stored in the field.
    b. *Maximum* – The greatest value that can be stored in the field.
3. *Codeset* - A coded value domain can apply to any type of attribute— text, numeric, date, and so on. If you pick the codeset domain, you must input:
    a. *Name* – If the enumerated or coded values stored in the field are specified by an authority, provide the title for this set of values.
    b. *Source* – The authority that defined the set of values stored in this field.

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