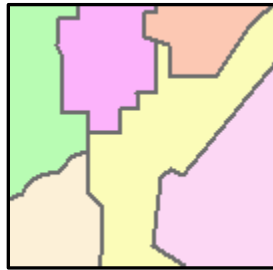**VT Center for Geographic Information**

# VT Future Land Use GIS-Data Standard

**Version 1.1**

12/12/2018

VERMONT

Vermont Enterprise GIS Consortium

## Updates

| Date | Notes |
|---|---|
| October 25, 2018 | Version 1.0, first draft |
| December 2, 2018 | Version 1.1, second draft. Added specification for retaining prior-edition plans. Added specification for adjunct point-layers (e.g., hamlets, habitat connections, etc.). |
| December 12, 2018 | Version 1.1 adopted by EGC (Enterprise GIS Consortium). |

## Statutory Authority and Standard Review/Approval

The Vermont Center for Geographic Information (VCGI) has the statutory authority[1] to craft and adopt VT GIS standards and guidelines. Over the past 2 decades, VCGI has worked with the VT GIS community to carefully craft these standards and guidelines, helping to make sure that Vermont GIS data "is compatible with, useful to" others in the VT GIS community.

The State's Enterprise GIS Consortium (EGC) has been established as the organization responsible for reviewing and approving Vermont GIS standards crafted by VCGI (in collaboration with the Vermont GIS Community).

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[1] http://legislature.vermont.gov/statutes/fullchapter/10/008

## Table of Contents

# Objectives

- Define a data framework for using GIS to map regional **future land use plans**.

- Define a data framework that supports easy identification of:
    - RPC to which a data set pertains.
    - adoption date of plan that the data set models.

- Provide the data framework as a resource that can be extended to meet local-regional business needs.

# Specifications

### Data Format

The **future land use plan** data set must be stored and maintained within a version 10.x or higher geodatabase or a set of 1 or more shapefiles. It can be served via any suitable format/protocol–e.g., ArcGIS Online feature layer, REST, etc.
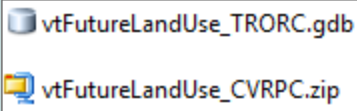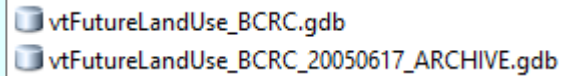
### Spatial Reference

The **future land use plan** data set, in its master-copy form, must be in a version of Vermont State Plane Meters, NAD 83. When the data set is exported or copied for provision to external entities, its spatial-reference properties must be set (e.g., shapefiles have .prj files).

**Bundle Naming**

Layers that compose a **future land use plan** data set are collectively termed **bundle** in this standard. When the bundle is exchanged or archived as a file-based resource, it is contained by either a single file-geodatabase (.gdb) or a single .zip-folder of shapefiles.

Bundle naming depends on the context:

| Context | Bundle Naming |
|---------|---------------|
| <mark>Currently-effective</mark> **future land use plan** data set as a file-based resource–e.g., provision to an RPC. | **vtFutureLandUse_<RPC acronym>**<br><br>**<RPC acronym>** represents the RPC's acronym–e.g., **CVRPC**.<br><br>vtFutureLandUse_TRORC.gdb<br><br>vtFutureLandUse_CVRPC.zip |
| To retain a <mark>prior-edition</mark> **future land use plan** data set, the master-copy bundle is archived when superseded. | **vtFutureLandUse_<RPC acronym>_<YYYYMMDD>_ARCHIVE**<br><br>**<YYYYMMDD>** represents the adoption date of the **future land use plan** that the data set models.<br><br>For example, an RPC's **future land use plan** was adopted on June 17, 2005. A new **future land use plan** was adopted on August 31, 2017.<br><br>The currently-effective **future land use plan** (adopted on August 31, 2017) is named **vtFutureLandUse_RPC**. The prior-edition **future land use plan** (adopted on June 17, 2005) is named **vtFutureLandUse_20050617_ARCHIVE**.<br><br>vtFutureLandUse_BCRC.gdb<br>vtFutureLandUse_BCRC_20050617_ARCHIVE.gdb |

**Metadata**

When the **future land use plan** data set is exported or copied for provision to external entities in file form (e.g., file geodatabase), it must be accompanied by metadata that conforms to the Vermont GIS Metadata Standard.

The metadata's **abstract** must have conspicuous content that indicates the adoption date of the plan that the data set models**.**

▶ Inclusion of field descriptions in the metadata is highly recommended.

**Schema**

The **future land use plan** data set is modeled with:

- 1 polygon layer for planning areas.
- –optionally, 1 or more adjunct point-layers (e.g., hamlets, habitat connections, etc.).

The polygon layer–planning areas–meets these specifications:

> **PLANNING AREAS**
>     **Description:** Models a region's **future land use plan** planning-areas.
>
>     **Feature Class (or shapefile) Name:**
>         **vtFutureLandUse_<RPC acronym>{_YYYYMMDD}_poly{_ARCHIVE}**
>
>         **{_YYYYMMDD}** is only applicable when the layer is within a prior-edition plan. If the layer is within a prior-edition plan, **{_YYYYMMDD}** represents the adoption date of the **future land use plan** that the layer models.
>
>         **{_ARCHIVE}** represents a specification for prior-edition plans. If the layer is within a prior-edition plan, end with an underscore followed by **ARCHIVE**.
>
>     **For examples:**
>         vtFutureLandUse_NVDA_poly
>
>         vtFutureLandUse_NVDA_20060224_poly_ARCHIVE
>
>     **Outward-Facing Name** (for ArcGIS Online, portals, etc.):
>         **VT Data - <RPC name> Future Land Use Plan {- Planning Areas}**
>
>         If **future land use plan** data set is modeled with more than 1 layer (e.g., has an adjunct point-layer), include **{- Planning Areas}** if needed to differentiate layers.
>
>     **For examples:**
>         VT Data - LCPC (Lamoille County Planning Commission) Future Land Use Plan
>
>         VT Data - LCPC (Lamoille County Planning Commission) Future Land Use Plan - Planning Areas
>
>     **Minimum Outward-Facing Tags** (per VT Open Geodata Portal Tagging Standard, for ArcGIS Online, portals, etc.):
>         **isothemeLand, subthemeLanduse, node<RPC acronym>**
>
>     **For example:**
>         Tags
>
>         isothemeLand, subthemeLanduse, nodeCCRPC
>
>         …CONTINUED ON NEXT PAGE…

| | | Geometry Type: | polygon |
|---|---|---|---|

**Field-Name Length Maximum:** Field names must have lengths of 10 characters or less (for synergy with open-data portals).

| Field Name | Description | Field Type | Allowed Values |
|---|---|---|---|
| PLAN_AREA | Planning area. | Text, length of 50 | No Null values or empty strings. |
| DEFINITION | URL that links to planning-area definition. | Text, length up to 254 | No Null values or empty strings. |

Adjunct point-layers (e.g., hamlets) meet these specifications:

**ADJUNCT POINT-LAYER**

**Description:** Point-layer component of a **future land use plan** data set.

**Feature Class (or shapefile) Name:**

**vtFutureLandUse_<RPC acronym>{_YYYYMMDD}_point_<descriptive>{_ARCHIVE}**

**{_YYYYMMDD}** is only applicable when the layer is within a prior-edition plan. If the layer is within a prior-edition plan, **{_YYYYMMDD}** represents the adoption date of the **future land use plan** that the layer models.

**<descriptive>** represents a string that describes the layer (e.g., HabitatConns).

**{_ARCHIVE}** represents a specification for prior-edition plans. If the layer is within a prior-edition plan, end with an underscore followed by **ARCHIVE**.

**For examples:**

vtFutureLandUse_LCPC_point_hamlets

vtFutureLandUse_LCPC_20060224_point_hamlets_ARCHIVE

**Outward-Facing Name** (when served as a stand-alone layer in ArcGIS Online, portals, etc.):
**VT Data - <RPC name> Future Land Use Plan <- descriptive string>**

**For example:**

VT Data - LCPC (Lamoille County Planning Commission)

Future Land Use Plan - Hamlets

**Minimum Outward-Facing Tags** (per VT Open Geodata Portal Tagging Standard, for ArcGIS Online, portals, etc.):
**isothemeLand, subthemeLanduse, node<RPC acronym>**

**For example:**

Tags

isothemeLand, subthemeLanduse, nodeCCRPC

…CONTINUED ON NEXT PAGE…

| **Geometry Type:**  point | |
| --- | --- |
| **Field-Name Length Maximum:**  Field names must have lengths of 10 characters or less (for synergy with open-data portals). | |
| **Fields are added as needed to complete the plan.** | |

## Cartographic Presentation

When cartographically presenting planning areas–e.g., in a web map–symbolization by **PLAN_AREA** and use of field-aliases are recommended.
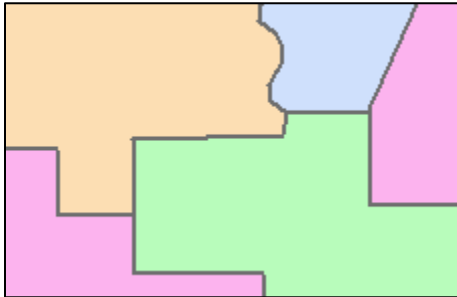


# Data Template

A data template is available!

VCGI provides geodatabase, shapefile, and metadata templates that can be used as starting points for utilizing this standard–go to the Standards and Guidelines page on vcgi.vermont.gov.