GIS MUNICIPAL BOUNDARY SCHEMA

Created on December 6th, 2013

Updated on May 26, 2015

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**For:**

Athens-Limestone County GIS Consortium

WORKING DRAFT

# Purpose

This is a method to coordinate the transfer of municipal limits among various GIS Data Users. There are many reasons for a municipality to have accurate municipal limits. Accurate boundaries aid administration of business licenses, census, emergency response districts, school districting, property subdivision, property taxes, sales taxes, voting, and zoning. Other service boundaries may coincide with municipal boundaries.

Accurate boundaries reduce confusion and allow users to make better decisions based on timely and accurate boundaries.

One schema allows the interchange of municipal limits to occur in a uniform manner.

This is an amalgamation of the ESRI Local Government Information Model (LGIM) and other influences.

# Table Schema

|  |  |  |  |
| --- | --- | --- | --- |
| **Column Name** | **Data Type** | **Maximum Width** | **Description** |
| Name | Text | 50 | Short Name of Municipality |
| ProperName | Text | 50 | Longer Name of Boundary |
| Municipal Type (MUNITYP) | Text | 10 | Municipal Type. Domain MunicipalType: City or Town |
| GNIS | Long Integer | 4 Bytes  (10 digit no.) | Geographic Names Information System Identifier. Unique ID for municipality. See [Reference](#_Reference) section. Use GNIS “Civil” feature class. |
| Local FIPS  (LOCALFIPS) | Text | 5 | ANSI Federal Information Processing Series (FIPS) Codes. See [Reference](#_Reference) section |
| Last Update Date  (LASTUPDATE) | Date |  | Date that the feature was last updated. |
|  |  |  |  |
| **OPTIONAL – Everything below this line is optional** | | | |
| ChangeDesc | Text | 254 | Description of last changes. What has changed since last time? It can be due to a legal reason (annexation or deannexation) or a refinement of the existing boundaries (Redrew the boundary to reflect better mapping.) Can be NULL. |
| Area in Square Miles (MUNIAREA) | Double / Numeric |  | Square Miles contained in Limits as calculate with GIS Software. Can be NULL or zero. |
| Source | Text | 100 | Where does the data come from? What agency has the data that fed this? Can be NULL. |
| SrcURL | Text | 254 | If the source data can be downloaded from a particular webpage. Can be NULL. |

Notes:

* For all text attributes, Proper Case (versus UPPER CASE) is preferable, but not required.
* The Data Type of Text does not distinguish between fixed with or variable width fields.

# GIS Data

Any municipal limits shall consist of one row. This can be accomplished by merging multiple rows for a city limits during editing. Without regard if a portion of the municipal limits is disjoined from the rest of the municipal limits.

# Schema Table Example

|  |  |
| --- | --- |
| **Field** | **Value** |
| LOCALFIPS | 02956 |
| LASTUPDATE | 8/27/2013 |
| ChangeDesc | Added Annexation 2013-1893 |
| Municipal Type | City |
| GNIS | 2403123 |
| Name | Athens |
| ProperName | City of Athens |
| Source | City of Athens, Engineering Services & Community Development Dept. |
| MUNIAREA | 39.8904 |
| SrcURL | <http://athensalabama.us/gis-information> |
|  |  |

# Old Names

Names given to fields before 5/26/2015, before amalgamating this with the ESRI LGIM.

|  |  |
| --- | --- |
| **New Name** | **Old Name** |
| Municipal Type (MUNITYP) | Class |
| MUNIAREA | SQ\_Miles |
| Local FIPS (LOCALFIPS) | CensusCode |
| LASTUPDATE | Merging of ChangeDate & ExportDate |

# Reference

Census Code “FIPS” Reference.  [http://www.census.gov/geo/reference/ansi.html](%20http:/www.census.gov/geo/reference/ansi.html)

Geographic Names Information System (GNIS) Identifier. <http://geonames.usgs.gov/domestic/>

# Inspirational Material

Oregon Administrative Boundary Standard. Version 2.0. July 2008. <http://www.oregon.gov/DAS/CIO/GEO/docs/adminbounds/administrative_boundaries_std_2_final.pdf>

NENA Standard Data Formats for 9-1-1 Data Exchange & GIS Mapping (NENA-02-010), Version 9. Approved 28, 2011. “1.4 C Municipal Boundary Layer” Page 99.

<https://www.nena.org/?page=DataFormats>

ESRI’s Local Government Information Model. version 10.3.

<http://solutions.arcgis.com/local-government/help/local-government-information-model/>