

What's New in pdGeoTIGER v2.0.0.Beta

ZIP+4 FILES

The biggest addition to the product is a set of 52 state ZIP+4 files for each of the 50 states, the District of Columbia, and Puerto Rico. There are a total of 30 million ZIP+4 records matched to Census Tract. Of these, 29 million are also matched to the Census Block Group and 25 million are matched to the Census Block. These files contain the same geo locations (also known as legal/statistical areas or geographic entities, or technically as faces or topological primitives) as the address range files, but are much easier to match.

ZIP CODE CORRECTIONS

While the ZIP+4 files were being developed, ZIP Code correction algorithms were run on all address ranges, and the resulting nearly one million corrections have been added to the address range files in a new PDZIPCOR field. (The original U.S. Census Department ZIP Codes are retained and undisturbed in a separate field.)

NEW ADDRESS RANGE VARIATIONS

New algorithms were also used to create the 14 million street name variation records in the address range files, enhancing them over the variations in earlier versions of the product.

MORE GEO LOCATION CODES

Coding has been added for many more geo locations:

- Region
- Division

(continued on next page)

- Urban Area
- Urban Growth Area
- Public Use Microdata Area
- Metropolitan/Micropolitan Statistical Area
- Metropolitan Division
- Combined New England City and Town Area
- New England City and Town Area
- New England City and Town Area Division
- American Indian/Alaska Native/Native Hawaiian Home Land
- American Indian Tribal Subdivision
- Alaska Native Regional Corporation
- Census Tribal Tract
- Census Tribal Block Group

GEO SUPPLEMENT

A new Geo Supplement file of more than 300,000 records has been added to the lineup as well. This companion database has additional information relating to most of the Census codes in the *pdGeoTIGER* database. With this supplemental users can easily look up the spelled-out name, often both short and long form, as well as latitude and longitude, land and water area, American Nation Standards Institute (ANSI) codes (when available), special indicators (when available), and other standard reference information.

PRO & STANDARD EDITIONS

pdGeoTIGER is now available in two versions, **Pro** and **standard**. The *Pro* version includes the 52 state ZIP+4 files, 55 state address range files (one for each of the 50 states, the District of Columbia, and Puerto Rico; with California, Ohio, and Texas having two files due to their size), and the geo supplement. The *standard* version includes the 52 state ZIP+4 files and the geo supplement (and excludes the address range files).

CENSUS 2010 GUARANTEE EXTENDED

Our *Census 2010 Guarantee* giving free *pdGeoTIGER v2* updates through 2012 has been extended: updates are now free through 2013.

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pdGeoTIGER – Getting Started Guide

pdGeoTIGER, now at version 2, is a comprehensive United States national geocoding database developed to permit exceptionally precise assignment of geo location designations (also known as legal/statistical areas or geographic entities, or technically as faces or topological primitives).

It comes in two editions: **Pro** and **standard**. Both versions have the complete product ZIP+4 geocoding database (totaling more than 30 million records), but the *Pro* version enhances the package with a full set of address range files (providing an additional 61.7 million records).

Regardless of which edition is licensed, it covers all 50 states, the District of Columbia, and Puerto Rico, and is drawn from the most recent edition of the U.S. Census Bureau *TIGER/Line Shapefiles*. Latitude and longitude coordinates and total area in square meters can be assigned along with a host of GeoCoding location designations for both the 2010 and 2000 Census periods.

pdGeoTIGER 2 continues to be in development while the U.S. Census Bureau completes its current work on the *Shapefile* data. A finalized version of this product will be released in 2013. All purchasers of a pre-finalized version of the product will have an opportunity to download the finalized version **free of charge** once released.

Included Database Files

Three different file formats are included to insure compatibility with any database system. Each of the file formats contains the same data.

Both the *Pro* and *standard* version of *pdGeoTIGER v2* contain 52 state ZIP+4 files covering all 50 states, the District of Columbia, and Puerto Rico, as well as a Geo Supplement file.

The Geo Supplement file has additional information relating to most of the Census codes in the *pdGeoTIGER v2* database. With this supplemental users can easily look up the spelled-out name, often both short and long form, as well as latitude and longitude, land and water area, American Nation Standards

Institute (ANSI) codes (when available), special indicators (when available), and other standard reference information.

With the *Pro* version, there are 55 additional data files. These are the address range files provided for each state, the District of Columbia, and Puerto Rico. California, Ohio, and Texas are divided into two files due to their size.

File names are as follows; the “XX” in lists below is a placeholder for the state abbreviation:

ZIP+4 FILES:

- XXz4.CSV (comma-delimited ASCII text—MS Excel compatible)
- XXz4.TXT (fixed length ASCII text)
- XXz4.DBF (dBase/FoxPro—easily imports into MS Access)

GEO SUPPLEMENT FILE

- pdGeoSupplement.CSV (comma-delimited ASCII text—MS Excel compatible)
- pdGeoSupplement.TXT (fixed length ASCII text)
- pdGeoSupplement.DBF (dBase/FoxPro—easily imports into MS Access)

ADDRESS RANGE FILES (*Pro* version only):

- XXar.CSV (comma-delimited ASCII text—MS Excel compatible)
- XXar.TXT (fixed length ASCII text)
- XXar.DBF (dBase/FoxPro—easily imports into MS Access)

The three states divided into two files (California, Ohio, and Texas) have a digit before the “ar” suffix signifying which Counties are included:

- XX1ar = Counties beginning with a letter between “A” and “L”
- XX2ar = Counties beginning with a letter between “M” and “Z”.

Included User Documentation

- README.txt (general information)
- (This) Getting Started Guide
- pdGeoTIGERz4-Layout.pdf (layout & data definitions of the ZIP+4 files)
- pdGeoTIGERar-Layout.pdf (*Pro* version only; layout & data definitions of the address range files)
- pdGeoSupplement-Layout.pdf (layout & data definitions of the Geo Supplement file)
- Distance-Formulas.pdf (distance calculation formulas & instructions)
- Site License (see Licensing below)

Version Number

The version number of each copy of *pdGeoTIGER* is written in the first or second row depending on format (the CSV files have field headings in the first row) of the first column of the database files in **X.X.X.X** format. The first number is the version of the release. The number after the first dot is the update for the version indicated. The number after the second dot references a minor revision.

During the period this product is being further developed towards its final version in 2013, a fourth indicator will be sequentially added to the version number: Alpha, Beta, Gamma, Delta, etc. (We could have used A, B, C, D, etc., but the Greek letters are more fun.) When the fourth indicator is gone, *pdGeoTIGER* will be finalized until version 3. However, updates will continue to be made available on a regular basis.

Layout & Data Definitions

File specifications can be found in the included *pdGeoTIGER-Layout.pdf*. This gives the name of each field, the character type (character/alphanumeric or numeric), the width (including any decimal points, the starting point and the ending point), and the definition of the field contents.

The same specifications for the Geo Supplement file can be found in the included *pdGeoSupplement-Layout.pdf*.

Instructions

pdGeoTIGER is a comprehensive United States national geocoding database developed to permit exceptionally precise assignment of geo location designations (also known as legal/statistical areas or geographic entities, or technically as faces or topological primitives).

It is drawn from the most recent edition of the U.S. Census Bureau *TIGER/Line Shapefiles*. Latitude and longitude coordinates and total area in square meters can be assigned along with a host of GeoCoding location designations for both the 2010 and 2000 Census periods.

Latitude and longitude coordinates are provided in three formats: six-decimal, degrees/minutes/seconds (DMS) and converted to radians (for use in trigonometry functions—15 numeric places). The decimal and radian formats are most useful when calculating distances and radiuses while the DMS format is ideal when printing out the coordinates in documents and on websites.

For those calculating distances and radiuses, formulas and instructions are contained in the included *Distance-Formulas.pdf*.

GEO LOCATIONS

In addition to **latitude** and **longitude**, **total area**, a **land/water indicator**, and an **urban/rural indicator**, both the *Pro* and *standard* version of *pdGeoTIGER v2* include the following geo locations (also known as legal/statistical areas or geographic entities, or technically as faces or topological primitives):

LEGAL ENTITIES

- Alaska Native Regional Corporation
- American Indian/Alaska Native/Native Hawaiian Home Land
- Congressional District
- Consolidated City
- County (and equivalent entities; except Alaska)
- Estate - U.S. Virgin Islands (for future use)
- Place (incorporated)
- School District - Elementary
- School District – Secondary
- School District - Unified
- State
- State Legislative District - Lower Chamber
- State Legislative District - Upper Chamber
- Subminor Civil Division - Puerto Rico Subbarrio
- Urban Growth Area
- Voting District

STATISTICAL ENTITIES

- Alaska county equivalents
- American Indian Tribal Subdivision
- Census 5-digit Zip Code Tabulation Area
- Census Tract
- Census Block Group
- Census Block
- Census Tribal Tract
- Census Tribal Block Group
- Combined Statistical Area
- County Subdivision (CCDs)
- Division
- Metropolitan/Micropolitan Statistical Area
- Metropolitan Division
- Combined New England City and Town Area
- New England City and Town Area
- New England City and Town Area Division
- Place (Census designated; CDPs)
- Public Use Microdata Area
- Region
- Urban Area

VARIATIONS & CORRECTION

pdGeoTIGER v2 address range files (*Pro* version only) include 14 million address range variations and almost one million ZIP Code corrections made by Peacock Data. These changes do not disturb the original *Shapefile* data, but significantly enhances it.

In the address range files (*Pro* version only) variations are provided (in addition to the original record) when there are alternative spellings or address constructions that are more in line with USPS databases. For example the U.S. Census Department may use a street name of “Co Rd 7”, in which case *pdGeoTIGER v2* would usually also provide a new variation record with the street name of “County Road 7” and another with the street name of “County Rd 7”. Note that the inclusion of variations involves a number of factors.

ZIP Code corrections have also been made in the address range files (*Pro* version only) which are in the **PDZIPCOR** field near the original Zip Codes provided by the U.S. Census Department (which have been left undisturbed). Any original Zip Code that was verified or could not be updated is also in the corrected ZIP Code field. These corrections were also used in the development of the ZIP+4 files.

Because almost one-quarter of the address range records in the *Pro* version of *pdGeoTIGER v2* is made up of Peacock Data’s own corrections, variations, and proprietary information, a **SOURCETYPE** field is included to indicate changes. The values in this field are as follows:

- 1 = Census *Shapefile* data
- 2 = Census *Shapefile* data algorithmically enhanced to accommodate new address ranges
- 3 = Peacock Data corrected Census *Shapefile* data - high confidence
- 4 = Peacock Data corrected Census *Shapefile* data - medium confidence
- 5 = Peacock Data variation or proprietary data

USING THE ZIP+4 FILES

52 ZIP+4 databases, totaling over 30 million records, are provided for each state, the District of Columbia, and Puerto Rico. Matching is against the **ZIP10** field which has the USPS 5-digit ZIP Code plus a hyphen plus the USPS 4-digit Plus4 add-on code in the same field (e.g., “1234-6789”); or against the parsed **ZIP** (USPS 5-digit ZIP Code) and **PLUS4** (4-digit Plus4 add-on code) fields. Once a ZIP+4 is matched, users can assign information contained in the fields beginning with **REGION**.

It is obvious that ZIP+4 matching an easy method for processing data; all users have to do is hit nine simple digits and they have their geo locations identified. However, note should be made of the problems associated with ZIP+4 geocoding: unfortunately U.S. Census Bureau Address Ranges and USPS ZIP+4

Address Ranges often do not follow the same path, so USPS lines can cross over Census lines, meaning a ZIP+4 code can be in more than one geo location.

The way Peacock Data has handled this is by omitting any split geo location information. So if the ZIP+4 is in two Census Blocks, the **BLOCK** field is blank.

Regardless of the shortcomings of ZIP+4 geocoding, the Peacock Data ZIP+4 database is exceptionally accurate, and will cover a high percentage of residential and business list records. Overall in the ZIP+4 files, about 30 million ZIP+4 records are matched to a single Census Tract. Of those, 29 million are matched to a single Census Block Group and 25 million are matched to a single Census Block. Any ZIP+4 records that could not be matched to a single Census Tract (a relatively small number) are excluded from the ZIP+4 file altogether.

USING THE ADDRESS RANGE FILES (*Pro version only*)

In the address range files, matching is against Address Range, as opposed to ZIP+4 information. 55 address range databases, totaling 61.7 million records, are provided for each state, the District of Columbia, and Puerto Rico. California, Ohio, and Texas are divided into two files due to their size.

Address range matching is considerably more difficult, but it allows users to avoid the problems associated with ZIP+4 geocoding, as described above, and achieve greater precision and a higher match rate.

In address range matching, the included Address Ranges point to a sequential line of potential addresses and not individual addresses. All possible structure numbers are included in the range, from the first structure to the last and all numbers of the same structure number parity (odd, even, or both) in between, regardless of if the actual structure currently exists.

The address range files contained in this database product are set up for easy Address Range matching. Users can simply match the **MATCHKEY**, **FROMHN**, **TOHN**, and **ADDRPARITY** fields against their residential and business lists to append the geo location information contained in the fields beginning with the **REGION** field.

The **MATCHKEY** field is a concatenation of the USPS 5-digit ZIP Code (**PDZIPCOR**) and full street name (**FULLNAME**) in UPPER CASE and without hyphens or spaces. Users then create a duplicate string from the addresses in their lists to match against the **MATCHKEY** field. Then qualifying records need to be compared to establish which one meets the structure number range and parity criteria.

For more control, alternatively users can match directly against the **FULLNAME** field or the parsed address fields (**PREQUAL**, **PREDIR**, **PRETYPE**, **STREETNAME**, **SUFTYPE**, **SUFDIR**, **SUFQUAL**), along with the **PDZIPCOR** (or **ZIP**), **FROMHN**, **TOHN**, and **ADDRPARITY** fields.

The parity of an address (contained in the **ADDRPARITY** field) is important because Address Ranges usually only include structure numbers of the same odd/even parity, however, a relatively small percentage have both odd and even numbers (assigned a “B” in the **ADDRPARITY** field), and must be considered.

Some Address Ranges may have a full 9-digit ZIP Code, with the first five digits contained in the **ZIP** field and the final four digits in the **PLUS4** field. The purpose of these is to differentiate addresses duplicated within the same 5-digit ZIP Code. When a full 9-digit ZIP Code is made available, it is advised to first try to match against the Address Range with the full code, and only secondarily against the Address Range with the 5-digit ZIP Code.

Note that Address Ranges can include structure numbers with alphabetic characters, which help to uniquely identify addresses, or hyphens, which separate avenue numbers, private road designators and grid cell numbers from structure numbers.

ABOUT INTERNAL POINT LATITUDE & LONGITUDE

Internal point latitude and longitude coordinates, as used in this product, are a calculated point that is at or near the geographic center of the entity. For some irregularly shaped entities (such as those shaped like a crescent), the calculated geographic center may be located outside the boundaries of the entity. In such instances, the internal point is identified as the point inside the entity boundaries nears to the calculated geographic center.

Note that while coordinates in the *Shapefiles* have six decimal places, the positional accuracy of these coordinates may not be as great as the six decimal places suggest because spatial accuracy varies with the source materials used. Therefore, the data may not be suitable for high-precision measurement applications such as engineering problems, property transfers, or other uses requiring highly accurate measurements of the earth’s surface.

USING THE GEO SUPPLEMENT FILE

The Geo Supplement file (available in both the *Pro* and *standard* version) has additional information relating to most of the Census codes in the *pdGeoTIGER v2* database. With this supplemental users can easily look up the spelled-out name, often both short and long form, as well as latitude and longitude, land and water area, American Nation Standards Institute (ANSI) codes (when available), special indicators (when available), and other standard reference information.

ABOUT THE CENSUS SHAPEFILES

While coverage is very high, users should be aware the Census *Shapefiles* that *pdGeoTIGER v2* is based on continue to have gaps and limitations. There are Address Range overlaps, odd/even reversals and low/high orientation reversals.

With the exception of overlaps, these may be valid. Peacock Data has corrected most of low/high orientation reversals (see the **REVRANGE** field).

The *Shapefiles* also do not provide data for every field in every record. For example, Voting District numbers (**VTD**) are not assigned when a state or locality does not follow U.S. Census Bureau guidelines when drawing ward and precinct lines. And, as another kind of example, the **SUBMCDFP** field is only filled in the Puerto Rico database; this is the Subminor Civil Division (Subbarrio) FIPS code number.

The *Shapefiles* generally contain only Address Ranges with *structure number-street name* style addresses. It does not have rural route and post office box addresses because these do not reference a specific location and latitude and longitude coordinates cannot be applied. It also does not include information for some small places where the USPS provides only post office box service, as well as for Single Address-Address Ranges (due to privacy concerns), including out-of-parity and out-of-sequence ranges that cover only a single structure number.

The *Shapefiles*, however, may contain structure numbers assigned for use by local emergency services, but not recognized by the USPS for mail delivery.

Licensing

If purchased as a standalone product, the Site License for this product can be found in the included *pdGeoTIGER-Site-License.pdf*. If purchased as part of *pdSuite Master Collection*, it can be found in the included *pdSuiteMC-Site-License.pdf*. Users are allowed to install *pdGeoTIGER* on all computers in the same building within a single company or organization (see the license for details). A Developer License is also available for separate purchase granting users the right to incorporate the information in for-profit services and products.

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pdGeoTIGER - Address Range GeoCoding Database

Users can match the address range information contained in the MATCHKEY, FROMHN, TOHN, and ADDRPARITY fields against their residential and business lists to assign the geo locations (also known as legal/statistical areas or geographic entities, or technically as faces or topological primitives) contained in the fields beginning with REGION. For more control, alternatively users can match directly against the FULLNAME field or the parsed address fields (PREQUAL, PREDIR, PRETYPE, STREETNAME, SUFTYPE, SUFDIR, SUFQUAL), along with the PDZIPCOR (or ZIP), FROMHN, TOHN, and ADDRPARITY fields.

In addition to current 2012 geo locations, from U.S. Region to Census Block, the most important 2000 and 2010 location information is also provided when the associated address range has not changed in the interim.

Sources include the 2012 edition of the U.S. Census Department TIGER/Line Shapefiles, the most current USPS ZIP Code and ZIP+4 databases, and proprietary Peacock Data information.

COLUMN HEADINGS

- FIELD: name of the field.
- TYPE: field type; Chr = character or alphanumeric, Num = numeric.
- WIDTH: field width.
- DEC: number of decimal points.
- FROM: field starting point.
- TO: field ending point.
- DESCRIPTION: data definition of the field contents.

Field	Type	Width	Dec	Start	End	Description
PEACOCK_ID	Chr	22		1	22	Unique ID number assigned to each record
GEOID	Chr	15		23	37	Geo identifier; concatenation of the state FIPS code, county FIPS code, Census Tract number, and Census Block number
SOURCETYPE	Chr	1		38	38	Source type indicator (key): 1 = Census Shapefile data 2 = Census Shapefile data algorithmically enhanced to accommodate new address ranges 3 = Peacock Data corrected Census Shapefile data - high confidence 4 = Peacock Data corrected Census Shapefile data - medium confidence 5 = Peacock Data variation or proprietary data
MATCHKEY	Chr	50		39	88	Match key preset for easy matching; concatenation of the PDZIPCOR and FULLNAME fields in UPPER CASE and without hyphens or spaces

pdGeoTIGER - Address Range GeoCoding Database

Field	Type	Width	Dec	Start	End	Description
FROMHN	Chr	12		89	100	From house or structure number
TOHN	Chr	12		101	112	To house or structure number
ADDRPARITY	Chr	1		113	113	Address parity (key): O = Odd E = Even B = Both
ADDRSIDE	Chr	1		114	114	Address side (key): L = Left side of the street R = Right side of the street
REVRANGE	Chr	1		115	115	Y = To and From range information has been reversed so the low number is in FROMHN field
FULLNAME	Chr	60		116	175	Full street address line in Mixed Case; concatenation of street prefix qualifier, prefix direction, prefix type, base name, suffix type, suffix direction, and suffix qualifier (when available) with a space between each part (e.g., "N Main St")
PREQUAL	Chr	5		176	180	Street prefix qualifier in Mixed Case (Old, Hst, Scn, etc.)
PREDIR	Chr	2		181	182	Street prefix direction (N, W, SE, etc.)
PRETYPE	Chr	40		183	222	Street prefix type in Mixed Case (County Road, Indian Service Route, US Highway, etc.)
STREETNAME	Chr	60		223	282	Base street name in Mixed Case (52nd, Downing, Main, etc.)
SUFTYPE	Chr	15		283	297	Street suffix type in Mixed Case (Ave, Rd, St, etc.)
SUFDIR	Chr	2		298	299	Street suffix-direction (N, W, SE, etc.)
SUFQUAL	Chr	5		300	304	Street suffix qualifier in Mixed Case (Alt, Bus, Pvt, etc.)
ZIP	Chr	5		305	309	Original US Census Department USPS 5-digit ZIP Code
PLUS4	Chr	4		310	313	USPS 4-digit Plus4 add-on code - only filled when needed to differentiate addresses duplicated within the same USPS 5-digit ZIP Code
PDZIPCOR	Chr	5		314	318	USPS 5-digit ZIP Code - includes Peacock Data corrections

pdGeoTIGER - Address Range GeoCoding Database

Field	Type	Width	Dec	Start	End	Description
REGION	Chr	1		319	319	Census Region Code (key): 1 = Northeast 2 = Midwest 3 = South 4 = West
DIVISION	Chr	1		320	320	Census Division Code (key): 1 = New England 2 = Middle Atlantic 3 = East North Central 4 = West North Central 5 = South Atlantic 6 = East South Central 7 = West South Central 8 = Mountain 9 = Pacific
STATEFP	Chr	2		321	322	State 2-digit FIPS Code
STATEABBR	Chr	2		323	324	USPS state 2-character abbreviation
STATE	Chr	20		325	344	Full state name in Mixed Case
COUNTYFP	Chr	3		345	347	County 3-digit FIPS Code
COUNTY	Chr	21		348	368	County name in Mixed Case
COUNTYLONG	Chr	33		369	401	County name in Mixed Case - long form
TRACT	Chr	6		402	407	Census Tract
BLOCKGRP	Chr	1		408	408	Census Block Group
BLOCK	Chr	4		409	412	Census Block
BLOCKSUF	Chr	1		413	413	Current Census Block Suffix Identifier - these are used for special US Census Department tabulations; they change frequently and are not filled in most records
LATITUDE	Chr	11		414	424	Internal point Latitude coordinate - 7 decimal places
LONGITUDE	Chr	12		425	436	Internal point Longitude coordinate - 7 decimal places
LATRAD	Num	18	15	437	454	Internal point Latitude coordinate converted to radians for use in trigonometry functions - 15 numeric places
LONRAD	Num	18	15	455	472	Internal point Longitude coordinate converted to radians for use in trigonometry functions - 15 numeric

pdGeoTIGER - Address Range GeoCoding Database

Field	Type	Width	Dec	Start	End	Description
						places
LATDMS	Chr	14		473	486	Internal point Latitude coordinate - Degrees/Minutes/Seconds
LONDMS	Chr	15		487	501	Internal point Longitude coordinate - Degrees/Minutes/Seconds
LANDWATER	Chr	1		502	502	Land/Water Identifier (key): G = Glacier I = Intermittent Water L = Land P = Permanent Water S = Swamp/Marsh
AREA	Num	14	0	503	516	Total area in square meters
COUSUBFP	Chr	5		517	521	County Subdivision FIPS Code
SUBMCDFP	Chr	5		522	526	Subminor Civil Division FIPS Code - Puerto Rico Subbarrio
UR	Chr	1		527	527	Urban/Rural Indicator (based on US Census Department Block indicators; includes Peacock Data calculations; key): U = Urban R = Rural M = Mixed
UA	Chr	5		528	532	Census Urban Area Code
UGA	Chr	5		533	537	Census Urban Growth Area Code
PUMA	Chr	5		538	542	Census Public Use Microdata Area Code
ESTATEFP	Chr	5		543	547	Estate FIPS Code - U.S. Virgin Islands (for future use)
CONCITFP	Chr	5		548	552	Consolidated City FIPS Code
PLACEFP	Chr	5		553	557	Place FIPS Code
CSAFP	Chr	3		558	560	Combined Statistical Area FIPS Code
METMICFP	Chr	5		561	565	Metropolitan/Micropolitan Statistical Area FIPS Code
METDVFP	Chr	5		566	570	Metropolitan Division FIPS Code
CNECTAFP	Chr	3		571	573	Combined New England City and Town Area FIPS Code
NECTAFP	Chr	5		574	578	New England City and Town Area FIPS Code
NECTDVFP	Chr	5		579	583	New England City and Town Area Division FIPS Code

pdGeoTIGER - Address Range GeoCoding Database

Field	Type	Width	Dec	Start	End	Description
AIANNH	Chr	4		584	587	Census American Indian/Alaska Native/Native Hawaiian Home Land Code
AIANNHFP	Chr	5		588	592	American Indian/Alaska Native/Native Hawaiian Home Land FIPS Code
AITSUB	Chr	3		593	595	Census American Indian Tribal Subdivision Code
AITSUBFP	Chr	5		596	600	American Indian Tribal Subdivision FIPS Code
ANRCFP	Chr	5		601	605	Alaska Native Regional Corporation FIPS Code
TTRACT	Chr	6		606	611	Census Tribal Tract
TBLKGRP	Chr	1		612	612	Census Tribal Block Group
VTD	Chr	6		613	618	Census Voting District Code
CD	Chr	2		619	620	Congressional District
SLDUPR	Chr	3		621	623	State Legislative District - Upper Chamber
SLDLWR	Chr	3		624	626	State Legislative District - Lower Chamber
SDELM	Chr	5		627	631	Census School District Code - Elementary
SDSEC	Chr	5		632	636	Census School District Code - Secondary
SDUNI	Chr	5		637	641	Census School District Code - Unified
ZCTA5	Chr	5		642	646	Census 5-digit Zip Code Tabulation Area
STATEFP10	Chr	2		647	648	2010 state 2-digit FIPS Code
COUNTYFP10	Chr	3		649	651	2010 county 3-digit FIPS Code
TRACT10	Chr	6		652	657	2010 Census Tract
BLOCKGRP10	Chr	1		658	658	2010 Census Block Group
BLOCK10	Chr	4		659	662	2010 Census Block
CD111	Chr	2		663	664	Congressional District: 111th Congress
STATEFP00	Chr	2		665	666	2000 state 2-digit FIPS Code
COUNTYFP00	Chr	3		667	669	2000 county 3-digit FIPS Code
TRACT00	Chr	6		670	675	2000 Census Tract
BLOCKGRP00	Chr	1		676	676	2000 Census Block Group
BLOCK00	Chr	4		677	680	2000 Census Block
CD108	Chr	2		681	682	Congressional District: 108th Congress

pdGeoTIGER - ZIP+4 GeoCoding Database

Users match USPS ZIP+4 codes against their residential and business lists to assign the geo locations (also known as legal/statistical areas or geographic entities, or technically as faces or topological primitives) contained in the fields beginning with REGION.

In addition to current 2012 geo locations, from U.S. Region to Census Block, the most important 2000 and 2010 location information is also provided when the associated address range has not changed in the interim.

The ZIP4 information is available in the ZIP10 field, which includes the USPS 5-digit ZIP Code plus a hyphen plus the USPS 4-digit Plus4 add-on code, and well as parsed into separate 5-digit ZIP Code (ZIP) and 4-digit Plus4 (PLUS4) add-on code fields.

Sources include the 2012 edition of the U.S. Census Department TIGER/Line Shapefiles, the most current USPS ZIP Code and ZIP+4 databases, and proprietary Peacock Data information.

COLUMN HEADINGS

FIELD: name of the field.

TYPE: field type; Chr = character or alphanumeric, Num = numeric.

WIDTH: field width.

DEC: number of decimal points.

FROM: field starting point.

TO: field ending point.

DESCRIPTION: data definition of the field contents.

Field	Type	Width	Dec	Start	End	Description
PEACOCK_ID	Chr	16		1	16	Unique ID number assigned to each record
ZIP10	Chr	10		17	26	USPS 5-digit ZIP Code plus a hyphen plus USPS 4-digit Plus4 add-on code
ZIP	Chr	5		27	31	USPS 5-digit ZIP Code
PLUS4	Chr	4		32	35	USPS 4-digit Plus4 add-on code
GEOID	Chr	15		36	50	Geo identifier; concatenation of the state FIPS code, county FIPS code, Census Tract number, and usually Census Block (or Block Group) number depending on the match precision
REGION	Chr	1		51	51	Census Region Code (key): 1 = Northeast 2 = Midwest 3 = South 4 = West
DIVISION	Chr	1		52	52	Census Division Code (key): 1 = New England 2 = Middle Atlantic

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Field	Type	Width	Dec	Start	End	Description
						3 = East North Central 4 = West North Central 5 = South Atlantic 6 = East South Central 7 = West South Central 8 = Mountain 9 = Pacific
STATEFP	Chr	2		53	54	State 2-digit FIPS Code
STATEABBR	Chr	2		55	56	USPS state 2-character abbreviation
STATE	Chr	20		57	76	Full state name in Mixed Case
COUNTYFP	Chr	3		77	79	County 3-digit FIPS Code
COUNTY	Chr	21		80	100	County name in Mixed Case
COUNTYLONG	Chr	33		101	133	County name in Mixed Case - long form
TRACT	Chr	6		134	139	Census Tract
BLOCKGRP	Chr	1		140	140	Census Block Group
BLOCK	Chr	4		141	144	Census Block
BLOCKSUF	Chr	1		145	145	Current Census Block Suffix Identifier - these are used for special US Census Department tabulations; they change frequently and are not filled in most records
ALLGEO	Chr	1		146	146	Area and Latitude/Longitude fields precision indicator (key): P = Most precise; matched to a specific Census polygon B = Matched to the Census Block G = Matched to the Census Block Group T = Matched to the Census Tract
LATITUDE	Chr	11		147	157	Internal point Latitude coordinate - 7 decimal places
LONGITUDE	Chr	12		158	169	Internal point Longitude coordinate - 7 decimal places
LATRAD	Num	18	15	170	187	Internal point Latitude coordinate converted to radians for use in trigonometry functions - 15 numeric places
LONRAD	Num	18	15	188	205	Internal point Longitude coordinate converted to radians for use in trigonometry functions - 15 numeric places

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Field	Type	Width	Dec	Start	End	Description
LATDMS	Chr	14		206	219	Internal point Latitude coordinate - Degrees/Minutes/Seconds
LONDMS	Chr	15		220	234	Internal point Longitude coordinate - Degrees/Minutes/Seconds
LANDWATER	Chr	1		235	235	Land/Water Identifier (key): G = Glacier I = Intermittent Water L = Land P = Permanent Water S = Swamp/Marsh
AREA	Num	14	0	236	249	Total area in square meters
COUSUBFP	Chr	5		250	254	County Subdivision FIPS Code
SUBMCDFP	Chr	5		255	259	Subminor Civil Division FIPS Code - Puerto Rico Subbarrio
UR	Chr	1		260	260	Urban/Rural Indicator (based on US Census Department Block indicators; includes Peacock Data calculations; key): U = Urban R = Rural M = Mixed
UA	Chr	5		261	265	Census Urban Area Code
UGA	Chr	5		266	270	Census Urban Growth Area Code
PUMA	Chr	5		271	275	Census Public Use Microdata Area Code
ESTATEFP	Chr	5		276	280	Estate FIPS Code - U.S. Virgin Islands (for future use)
CONCITFP	Chr	5		281	285	Consolidated City FIPS Code
PLACEFP	Chr	5		286	290	Place FIPS Code
CSAFP	Chr	3		291	293	Combined Statistical Area FIPS Code
METMICFP	Chr	5		294	298	Metropolitan/Micropolitan Statistical Area FIPS Code
METDVFP	Chr	5		299	303	Metropolitan Division FIPS Code
CNECTAFP	Chr	3		304	306	Combined New England City and Town Area FIPS Code
NECTAFP	Chr	5		307	311	New England City and Town Area FIPS Code
NECTDVFP	Chr	5		312	316	New England City and Town Area Division FIPS Code
AIANNH	Chr	4		317	320	Census American Indian/Alaska Native/Native Hawaiian Home Land Code

pdGeoTIGER - ZIP+4 GeoCoding Database

Field	Type	Width	Dec	Start	End	Description
AIANNHFP	Chr	5		321	325	American Indian/Alaska Native/Native Hawaiian Home Land FIPS Code
AITSUB	Chr	3		326	328	Census American Indian Tribal Subdivision Code
AITSUBFP	Chr	5		329	333	American Indian Tribal Subdivision FIPS Code
ANRCFP	Chr	5		334	338	Alaska Native Regional Corporation FIPS Code
TTRACT	Chr	6		339	344	Census Tribal Tract
TBLKGRP	Chr	1		345	345	Census Tribal Block Group
VTD	Chr	6		346	351	Census Voting District Code
CD	Chr	2		352	353	Congressional District
SLDUPR	Chr	3		354	356	State Legislative District - Upper Chamber
SLDLWR	Chr	3		357	359	State Legislative District - Lower Chamber
SDELM	Chr	5		360	364	Census School District Code - Elementary
SDSEC	Chr	5		365	369	Census School District Code - Secondary
SDUNI	Chr	5		370	374	Census School District Code - Unified
ZCTA5	Chr	5		375	379	Census 5-digit Zip Code Tabulation Area
STATEFP10	Chr	2		380	381	2010 state 2-digit FIPS Code
COUNTYFP10	Chr	3		382	384	2010 county 3-digit FIPS Code
TRACT10	Chr	6		385	390	2010 Census Tract
BLOCKGRP10	Chr	1		391	391	2010 Census Block Group
BLOCK10	Chr	4		392	395	2010 Census Block
CD111	Chr	2		396	397	Congressional District: 111th Congress
STATEFP00	Chr	2		398	399	2000 state 2-digit FIPS Code
COUNTYFP00	Chr	3		400	402	2000 county 3-digit FIPS Code
TRACT00	Chr	6		403	408	2000 Census Tract
BLOCKGRP00	Chr	1		409	409	2000 Census Block Group
BLOCK00	Chr	4		410	413	2000 Census Block
CD108	Chr	2		414	415	Congressional District: 108th Congress

January 1, 2013

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