

PDGEOTIGER LAYOUT AND DATA DEFINITIONS

Below are the complete layout specifications and data definitions of all files provided with **pdGeoTIGER** (except *pdGeoSupplement* which is provided in separate documentation).

Each line below contains the following information: **FIELD NUMBER**: field position number. **FIELD NAME**: name of field. **FIELD TYPE**: field data type; “Chr” = alpha/numeric characters, “Num” = numbers. **FIELD LENGTH**: length of field. **DECIMAL PLACES**: number of decimal places (if any). **START POSITION**: field starting position. **END POSITION**: field ending position. **DESCRIPTION**: data definition of field contents.

LAYOUT OF PDGEOTIGER ZIP+4 FILE

Field Count: 70

Total Length: 418

Record Count: 31,205,869

FIELD NUMBER	FIELD NAME	FIELD TYPE	FIELD LENGTH	DECIMAL PLACES	START POSITION	END POSITION	DESCRIPTION
1	PEACOCK_ID	Chr	16		1	16	Primary key; unique identifier for each record; concatenation of the State FIPS Code, plus the County FIPS Code, plus a hyphen, plus the USPS 5-digit ZIP Code, plus a hyphen, plus the USPS 4-digit Plus4 add-on code
2	ZIP10	Chr	10		17	26	Concatenation of the USPS 5-digit ZIP Code, plus a hyphen, plus the USPS 4-digit Plus4 add-on code
3	ZIP	Chr	5		27	31	USPS 5-digit ZIP Code
4	PLUS4	Chr	4		32	35	USPS 4-digit Plus4 add-on code
5	GEOFLAG	Chr	1		36	36	GeoCoding Confidence Indicator: 1 = Highest GeoCoding confidence 2 = Medium-High confidence 3 = Medium confidence 4 = Medium-Low confidence 5 = Lowest GeoCoding confidence
6	GEOID	Chr	15		37	51	Geographic Identifier; concatenation of the State FIPS Code, plus the County FIPS Code, plus the Census Tract, plus the Census Block, that together uniquely hierarchically defines the geographic area
7	LATITUDE	Chr	11		52	62	Internal point latitude coordinate in degrees (7 decimal places)
8	LONGITUDE	Chr	12		63	74	Internal point longitude coordinate in degrees (7 decimal places)
9	LATRAD	Num	18	15	75	92	Internal point latitude coordinate converted to radians for use in trigonometry functions (15 numeric places)

10	LONRAD	Num	18	15	93	110	Internal point longitude coordinate converted to radians for use in trigonometry functions (15 numeric places)
11	LATDMS	Chr	14		111	124	Internal point latitude coordinate in degrees/minutes/seconds
12	LONDMS	Chr	15		125	139	Internal point longitude coordinate in degrees/minutes/seconds
13	LANDWATER	Chr	1		140	140	Land and Water Indicator: G = Glacier I = Intermittent Water L = Land P = Permanent Water S = Swamp/Marsh
14	AREA	Num	14		141	154	Total area in square meters
15	UR	Chr	1		155	155	Urban/Rural Indicator: U = Urban R = Rural
16	REGION	Chr	1		156	156	Region: 1 = Northeast 2 = Midwest 3 = South 4 = West 9 = Not in a region (insular areas)
17	DIVISION	Chr	1		157	157	Division: 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 0 = Not in a division (insular areas)
18	STATEFP	Chr	2		158	159	State FIPS Code
19	STATEABBR	Chr	2		160	161	State USPS Postal Abbreviation
20	STATE	Chr	20		162	181	State Name
21	COUNTYFP	Chr	3		182	184	County FIPS Code
22	COUNTY	Chr	21		185	205	County Name
23	COUNTYLONG	Chr	33		206	238	County name and translated legal/statistical area description
24	TRACT	Chr	6		239	244	Census Tract
25	BLOCKGRP	Chr	1		245	245	Census Block Group
26	BLOCK	Chr	4		246	249	Census Block
27	BLOCKSUF	Chr	1		250	250	Census Block Suffix
28	COUSUBFP	Chr	5		251	255	County Subdivision FIPS Code
29	SUBMCDFP	Chr	5		256	260	Subminor Civil Division FIPS Code (Commonwealth of Puerto Rico subbarrio)
30	ESTATEFP	Chr	5		261	265	Estate FIPS Code (U.S. Virgin Islands only)
31	PLACEFP	Chr	5		266	270	Place FIPS Code
32	CONCITFP	Chr	5		271	275	Consolidated City FIPS Code

33	ANRCFP	Chr	5		276	280	Alaska Native Regional Corporation FIPS Code
34	AIANNH	Chr	4		281	284	American Indian Area/Alaska Native Area/Native Hawaiian Home Land
35	AIANNHFP	Chr	5		285	289	American Indian Area/Alaska Native Area/Native Hawaiian Home Land Fips Code
36	AIANNHLI	Chr	1		290	290	American Indian Area/Alaska Native Area/Native Hawaiian Home Land Reservation/Statistical Entity or Off-Reservation Trust Land/Native Hawaiian Home Land Indicator: T = Off-Reservation Trust Land R = Reservation or Statistical Entity M = Mixed
37	AITSUB	Chr	3		291	293	American Indian Tribal Subdivision
38	AITSUBFP	Chr	5		294	298	American Indian Tribal Subdivision FIPS Code
39	TTRACT	Chr	6		299	304	Tribal Census Tract
40	TBLKGRP	Chr	1		305	305	Tribal Block Group
41	CSAFP	Chr	3		306	308	Combined Statistical Area FIPS Code
42	METMICFP	Chr	5		309	313	Metropolitan/Micropolitan Statistical Area (CBSA) FIPS Code
43	METDVFP	Chr	5		314	318	Metropolitan Division FIPS Code
44	CNECTAFP	Chr	3		319	321	Combined New England City and Town Area FIPS Code
45	NECTAFP	Chr	5		322	326	New England City and Town Area FIPS Code
46	NECTDVFP	Chr	5		327	331	New England City and Town Area Division FIPS Code
47	UA	Chr	5		332	336	Urban Area
48	UGA	Chr	5		337	341	Urban Growth Area (Oregon and Washington)
49	CD	Chr	2		342	343	Congressional District FIPS Code: 01 to 53 = Congressional district codes 00 = At large (single district for state) 98 = Nonvoting delegate; District of Columbia (federal district), the Commonwealth of Puerto Rico, and other insular areas
50	SLDUPR	Chr	3		344	346	State Legislative District (Upper Chamber)
51	SLDLWR	Chr	3		347	349	State Legislative District (Lower Chamber)
52	VTD	Chr	6		350	355	Voting District
53	SDELM	Chr	5		356	360	School District (Elementary)
54	SDSEC	Chr	5		361	365	School District (Secondary)
55	SDUNI	Chr	5		366	370	School District (Unified)
56	PUMA	Chr	5		371	375	Public Use Microdata Area (PUMA 5% File)
57	ZCTA5	Chr	5		376	380	Census 5-digit ZIP Code Tabulation Area (ZCTA)

58	CD112	Chr	2		381	382	112th Congress Congressional District FIPS Code: 01 to 53 = Congressional district codes 00 = At large (single district for state) 98 = Nonvoting delegate; District of Columbia (federal district), the Commonwealth of Puerto Rico, and other insular areas
59	STATEFP10	Chr	2		383	384	State FIPS Code from the first Census 2010 release
60	COUNTYFP10	Chr	3		385	387	County FIPS Code from the first 2010 release
61	TRACT10	Chr	6		388	393	Census Tract from the first 2010 release
62	BLOCKGRP10	Chr	1		394	394	Census Block Group from the first 2010 release
63	BLOCK10	Chr	4		395	398	Census Block from the first 2010 release
64	CD111	Chr	2		399	400	111th Congress Congressional District FIPS Code: 01 to 53 = Congressional district codes 00 = At large (single district for state) 98 = Nonvoting delegate; District of Columbia (federal district), the Commonwealth of Puerto Rico, and other insular areas
65	STATEFP00	Chr	2		401	402	State FIPS Code from Census 2000
66	COUNTYFP00	Chr	3		403	405	County FIPS Code from 2000
67	TRACT00	Chr	6		406	411	Census Tract from 2000
68	BLOCKGRP00	Chr	1		412	412	Census Block Group from 2000
69	BLOCK00	Chr	4		413	416	Census Block from 2000
70	CD108	Chr	2		417	418	108th Congress Congressional District FIPS Code: 01 to 53 = Congressional district codes 00 = At large (single district for state) 98 = Nonvoting delegate; District of Columbia (federal district), the Commonwealth of Puerto Rico, and other insular areas

LAYOUT OF PDGEOTIGER ADDRESS RANGE FILE

*Field Count: 84**Total Length: 685**Record Count: 60,577,821*

FIELD NUMBER	FIELD NAME	FIELD TYPE	FIELD LENGTH	DECIMAL PLACES	START POSITION	END POSITION	DESCRIPTION
1	PEACOCK_ID	Chr	22		1	22	Primary key; unique identifier for each record; a concatenation of the geographic identifier, plus a hyphen, plus a sequential number for each record with the same geographic identifier
2	MATCHKEY	Chr	50		23	72	Match key preset for easy matching; concatenation of the corrected USPS 5-digit ZIP Code plus the full street address line in UPPER CASE without hyphens or spaces
3	FROMHN	Chr	12		73	84	From (low) house or structure number
4	TOHN	Chr	12		85	96	To (high) house or structure number
5	ADDRPARITY	Chr	1		97	97	Address Parity Indicator: O = Odd E = Even B = Both
6	ADDRSIDE	Chr	1		98	98	Address Side Indicator: L = Left side of the street R = Right side of the street
7	REVRANGE	Chr	1		99	99	Reversed Range Indicator: Y = To and From range information is corrected
8	FULLNAME	Chr	60		100	159	Full street address line in Mixed Case; concatenation of the street prefix qualifier, prefix direction, prefix type, street name, suffix type, suffix direction, and suffix qualifier with a space between each part (e.g., N Main St, Old Lawson Creek Rd)
9	PREQUAL	Chr	5		160	164	Street prefix qualifier in Mixed Case (e.g., Old, Hst, Scn)
10	PREDIR	Chr	2		165	166	Street prefix direction (e.g., N, W, SE, SW)
11	PRETYPE	Chr	40		167	206	Street prefix type in Mixed Case (e.g., County Road, Indian Service Route, US Highway)
12	STREETNAME	Chr	60		207	266	Base street name in Mixed Case (e.g., Main, Lawson Creek, 52nd)
13	SUFTYPE	Chr	15		267	281	Street suffix type in Mixed Case (e.g., Ave, Rd, St, Blvd)
14	SUFDIR	Chr	2		282	283	Street suffix direction (e.g., N, W, SE, SW)

15	SUFQUAL	Chr	5		284	288	Street suffix qualifier in Mixed Case (e.g., Alt, Bus, Pvt)
16	ZIP	Chr	5		289	293	Original USPS 5-digit ZIP Code provided in the Census TIGER/Line® Shapefiles before correction
17	PLUS4	Chr	4		294	297	USPS 4-digit Plus4 add-on code
18	PDZIPCOR	Chr	5		298	302	USPS 5-digit ZIP Code with Peacock Data corrections
19	SOURCETYPE	Chr	1		303	303	Source Type Indicator: 1 = Census TIGER/Line® Shapefiles data 2 = Census TIGER/Line® Shapefiles data algorithmically enhanced to accommodate new address ranges 3 = Peacock Data corrected Census TIGER/Line® Shapefiles data-high confidence 4 = Peacock Data corrected Census TIGER/Line® Shapefiles data-medium confidence 5 = Peacock Data variation or proprietary data
20	GEOID	Chr	15		304	318	Geographic Identifier; concatenation of the State FIPS Code, plus the County FIPS Code, plus the Census Tract, plus the Census Block, that together uniquely hierarchically defines the geographic area
21	LATITUDE	Chr	11		319	329	Internal point latitude coordinate in degrees (7 decimal places)
22	LONGITUDE	Chr	12		330	341	Internal point longitude coordinate in degrees (7 decimal places)
23	LATRAD	Num	18	15	342	359	Internal point latitude coordinate converted to radians for use in trigonometry functions (15 numeric places)
24	LONRAD	Num	18	15	360	377	Internal point longitude coordinate converted to radians for use in trigonometry functions (15 numeric places)
25	LATDMS	Chr	14		378	391	Internal point latitude coordinate in degrees/minutes/seconds
26	LONDMS	Chr	15		392	406	Internal point longitude coordinate in degrees/minutes/seconds
27	LANDWATER	Chr	1		407	407	Land and Water Indicator: G = Glacier I = Intermittent Water L = Land P = Permanent Water S = Swamp/Marsh
28	AREA	Num	14		408	421	Total area in square meters
29	UR	Chr	1		422	422	Urban/Rural Indicator: U = Urban R = Rural

30	REGION	Chr	1		423	423	Region: 1 = Northeast 2 = Midwest 3 = South 4 = West 9 = Not in a region (insular areas)
31	DIVISION	Chr	1		424	424	Division: 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 0 = Not in a division (insular areas)
32	STATEFP	Chr	2		425	426	State FIPS Code
33	STATEABBR	Chr	2		427	428	State USPS Postal Abbreviation
34	STATE	Chr	20		429	448	State Name
35	COUNTYFP	Chr	3		449	451	County FIPS Code
36	COUNTY	Chr	21		452	472	County Name
37	COUNTYLONG	Chr	33		473	505	County name and translated legal/statistical area description
38	TRACT	Chr	6		506	511	Census Tract
39	BLOCKGRP	Chr	1		512	512	Census Block Group
40	BLOCK	Chr	4		513	516	Census Block
41	BLOCKSUF	Chr	1		517	517	Census Block Suffix
42	COUSUBFP	Chr	5		518	522	County Subdivision FIPS Code
43	SUBMCDFP	Chr	5		523	527	Subminor Civil Division FIPS Code (Commonwealth of Puerto Rico subbarrio)
44	ESTATEFP	Chr	5		528	532	Estate FIPS Code (U.S. Virgin Islands only)
45	PLACEFP	Chr	5		533	537	Place FIPS Code
46	CONCITFP	Chr	5		538	542	Consolidated City FIPS Code
47	ANRCFP	Chr	5		543	547	Alaska Native Regional Corporation FIPS Code
48	AIANNH	Chr	4		548	551	American Indian Area/Alaska Native Area/Native Hawaiian Home Land
49	AIANNHFP	Chr	5		552	556	American Indian Area/Alaska Native Area/Native Hawaiian Home Land Fips Code
50	AIANNHLI	Chr	1		557	557	American Indian Area/Alaska Native Area/Native Hawaiian Home Land Reservation/Statistical Entity or Off-Reservation Trust Land/Native Hawaiian Home Land Indicator: T = Off-Reservation Trust Land R = Reservation or Statistical Entity M = Mixed
51	AITSUB	Chr	3		558	560	American Indian Tribal Subdivision
52	AITSUBFP	Chr	5		561	565	American Indian Tribal Subdivision FIPS Code

53	TTRACT	Chr	6		566	571	Tribal Census Tract
54	TBLKGRP	Chr	1		572	572	Tribal Block Group
55	CSAFP	Chr	3		573	575	Combined Statistical Area FIPS Code
56	METMICFP	Chr	5		576	580	Metropolitan/Micropolitan Statistical Area (CBSA) FIPS Code
57	METDVFP	Chr	5		581	585	Metropolitan Division FIPS Code
58	CNECTAFP	Chr	3		586	588	Combined New England City and Town Area FIPS Code
59	NECTAFP	Chr	5		589	593	New England City and Town Area FIPS Code
60	NECTDVFP	Chr	5		594	598	New England City and Town Area Division FIPS Code
61	UA	Chr	5		599	603	Urban Area
62	UGA	Chr	5		604	608	Urban Growth Area (Oregon and Washington)
63	CD	Chr	2		609	610	Congressional District FIPS Code: 01 to 53 = Congressional district codes 00 = At large (single district for state) 98 = Nonvoting delegate; District of Columbia (federal district), the Commonwealth of Puerto Rico, and other insular areas
64	SLDUPR	Chr	3		611	613	State Legislative District (Upper Chamber)
65	SLDLWR	Chr	3		614	616	State Legislative District (Lower Chamber)
66	VTD	Chr	6		617	622	Voting District
67	SDELM	Chr	5		623	627	School District (Elementary)
68	SDSEC	Chr	5		628	632	School District (Secondary)
69	SDUNI	Chr	5		633	637	School District (Unified)
70	PUMA	Chr	5		638	642	Public Use Microdata Area (PUMA 5% File)
71	ZCTA5	Chr	5		643	647	Census 5-digit ZIP Code Tabulation Area (ZCTA)
72	CD112	Chr	2		648	649	112th Congress Congressional District FIPS Code: 01 to 53 = Congressional district codes 00 = At large (single district for state) 98 = Nonvoting delegate; District of Columbia (federal district), the Commonwealth of Puerto Rico, and other insular areas
73	STATEFP10	Chr	2		650	651	State FIPS Code from the first Census 2010 release
74	COUNTYFP10	Chr	3		652	654	County FIPS Code from the first 2010 release
75	TRACT10	Chr	6		655	660	Census Tract from the first 2010 release
76	BLOCKGRP10	Chr	1		661	661	Census Block Group from the first 2010 release

77	BLOCK10	Chr	4		662	665	Census Block from the first 2010 release
78	CD111	Chr	2		666	667	111th Congress Congressional District FIPS Code: 01 to 53 = Congressional district codes 00 = At large (single district for state) 98 = Nonvoting delegate; District of Columbia (federal district), the Commonwealth of Puerto Rico, and other insular areas
79	STATEFP00	Chr	2		668	669	State FIPS Code from Census 2000
80	COUNTYFP00	Chr	3		670	672	County FIPS Code from 2000
81	TRACT00	Chr	6		673	678	Census Tract from 2000
82	BLOCKGRP00	Chr	1		679	679	Census Block Group from 2000
83	BLOCK00	Chr	4		680	683	Census Block from 2000
84	CD108	Chr	2		684	685	108th Congress Congressional District FIPS Code: 01 to 53 = Congressional district codes 00 = At large (single district for state) 98 = Nonvoting delegate; District of Columbia (federal district), the Commonwealth of Puerto Rico, and other insular areas

Note that the layouts above are also available in Excel XLS files provided with the database. Programmers can use these files to create table shells for the pdGeoTIGER data.

IMPORTING DATA INTO YOUR SYSTEM

pdGeoTIGER is designed to be compatible with any database system. It comes in multiple file formats, uses only the ANSI character set, and has a well-defined layout.

FILE FORMATS

The database is available in three common file formats. Each format contains the same data.

Available file formats are:

CSV-COMMA SEPARATED VALUES

Files in Comma Separated Values (CSV) format (also known as Comma Delimited) separate fields with commas, and alpha/numeric character fields are usually delimited with double quotes (in case some of the field content includes commas). This format is the most commonly used. It is a native format for Microsoft Excel and is compatible with nearly all database management systems and spreadsheets.

TXT-FIXED LENGTH

Files in Fixed Length (TXT) format (also known as Standard Data Format or SDF) use constant field positions and lengths for all records. In other words, each field starts and ends at the same place in the text file and each record is on a separate line. While not as popular as comma separated values, this format is preferred by many due to its input precision and is widely used to transfer data between different software programs. It is compatible with most database management systems and spreadsheets.

DBF-DATABASE

Files in DBF database format (also known as xBase) are native to Microsoft FoxPro and Visual FoxPro, dataBased Intelligence dBase, Alaska Software XBase++, Apollo Database Engine, Apycom Software DBFView, Astersoft DBF Manager, DS-Datasoft Visual DBU, Elsoft DBF Commander, GrafX Software Clipper and Vulcan.NET, Multisoft FlagShip, Recital Software Recital, Software Perspectives Cule.Net, and xHarbour.com xHarbour. They are also compatible with any database management system that can import the DBF (xBase) format, such as Microsoft Access, Microsoft SQL Server, and numerous others.

CHARACTER SET

The ANSI character set is utilized for all database records. This includes ASCII values 0 to 127 and extended values 128 to 255. These are also known as the extended Latin alphabet. Some users may need to configure their database system to import the extended values. In many cases the option will be labeled the “Latin-1” character set.

DATABASE VERSION NUMBER

Depending on the file format, the version number of each copy of *pdGeoTIGER* is written in the first or second row of the first or second column of the database files in X.X.X format. The first number is the main version number 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.

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