

ZIP + 4[®] Layout

Standardized Data	Length	Description - only fields requested will be added
cityx	15	15-character city name as provided by USPS [®]
zip4	4	ZIP + 4 or blank if ZIP + 4 not found
dlvpnt	2	Delivery point
chkdgt	1	Legacy check digit
crrt	4	Carrier route code
lot	4	Line of Travel (LOT) number for carrier route mailings
lot_order	1	LOT ascending or descending sort flag
csz	40	Combination of City, State and ZIP [®] Code
urban	60	Urbanization (for Puerto Rico addresses)
county	3	Three digit county code
ctyname	25	County name
fips	5	Federal code for state and county. Combines 2-digit state code with 3-digit county code. See Appendix A for state codes
congdist	3	U.S. Congressional District
rec_type	2	Address match type (a code followed by 'D' indicates a default assignment) F = Firm G = General delivery H = High-rise apartment or office building M = Military P = PO Box [™] R = Rural route or highway contract S = Street (usually one side of one city block) Blank = Unassigned (not ZIP + 4 coded)
dpv_flag	1	Indicates whether or not a record matched to the DPV [™] database N = No delivery point validation Y = Delivery point validated; primary number valid and secondary number (when present) valid S = Valid primary number; secondary number (primary for RR) present and not confirmed D = Valid primary number; input missing secondary number (primary for RR) Blank = Record not presented for DPV match (not ZIP + 4 coded)
dpv_cmra	1	Indicates whether or not the presented address is a Commercial Mail Receiving Agency (CMRA) Y = Address is a CMRA N = Address is not a CMRA Blank = Record not presented for CMRA match (not ZIP + 4 coded)
dpv_ftnts	12	DPV footnotes AA = Input address ZIP + 4 match A1 = Input address ZIP + 4 not matched BB = Input address DPV matched (all components) CC = Input address DPV primary number match, secondary number not DPV confirmed F1 = Input address matches a military address G1 = Input address matches a general delivery address M1 = Input address primary number missing M3 = Input address primary number invalid N1 = Input address DPV primary number match, high-rise address missing secondary number P1 = Input address missing PO, RR, or HC Box number P3 = Input address PO, RR, or HC Box number invalid R1 = Input address DPV matched to CMRA but PMB number not present RR = Input address DPV matched to CMRA U1 = Input address matches a unique address
dpv_vacant	1	Vacant indicator Y = Location has been vacant for 90+ days N = Not a vacant address Blank = Record not presented for vacant match (not ZIP + 4 coded)

ews	1	EWS consists of records containing partial address information limited to the street name, pre- and post-directionals and a ZIP Code. For an address record to be EWS eligible, it must be an address not present on the most recent monthly production ZIP + 4 File. EWS flag Y = Matched to EWS file N = Not an EWS match
status	6	Status/error codes (See Appendix B for status codes and Appendix C for error codes)
lac_rtncod	2	Post Office LACS ^{Link} ® return codes A = LACS ^{Link} record match 00 = No match, and no converted address 09 = LACS ^{Link} matched an input address to an old address, which is a 'high-rise default' address, no new address is provided 14 = Found LACS ^{Link} record, but could not convert the data to a deliverable address 92 = LACS ^{Link} record matched after dropping the secondary number from input address Blank = Record not presented for LACS ^{Link} match
ste_rtncod	2	Post Office Suite ^{Link} return codes A = Suite ^{Link} record match, suite information is added to the address 00 = No match, and no suite information added Blank = Record not presented for Suite ^{Link} match
Geocode Data		
	Length	Description - returned only when geocoding is requested
latitude	10	Latitude (degrees north of the Equator) in the format "12.123456"
longitude	11	Longitude (degrees east of the Greenwich Meridian) in the format "-12.123456"
gc_tract	6	Census Tract. Statistical subdivision of a county or an equivalent area.
gc_blkgrp	1	Block Group - first digit of the Census Block. Statistical division of Census Tract.
gc_block	4	Census Block. Small area bounded by visible and/or invisible features.
gc_placecd	5	FIPS place code. Number assigned by the U. S. government to each incorporated municipality. This field is only returned with address level geocoding, and only populated for address level matches.
gc_mcd	6	Census Bureau minor civil division (MCD) data, or if MCD data is unavailable, census county division (CCD) data. This field is only returned with address level geocoding, and only populated for address level matches.
gc_level	1	Level of geocode match A = Address match 9 = 9-digit match in centroid 7 = 7-digit match in centroid 5 = 5-digit match in centroid 0 = No match found Blank = Address not presented for Geocode match



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Appendix A: State FIPS Codes

Code	State
01	Alabama
02	Alaska
04	Arizona
05	Arkansas
06	California
08	Colorado
09	Connecticut
10	Delaware
11	District of Columbia
12	Florida
13	Georgia
15	Hawaii
16	Idaho
17	Illinois
18	Indiana
19	Iowa
20	Kansas
21	Kentucky
22	Louisiana
23	Maine
24	Maryland
25	Massachusetts
26	Michigan
27	Minnesota
28	Mississippi
29	Missouri
30	Montana
31	Nebraska
32	Nevada
33	New Hampshire
34	New Jersey
35	New Mexico
36	New York
37	North Carolina
38	North Dakota
39	Ohio
40	Oklahoma
41	Oregon
42	Pennsylvania
44	Rhode Island
45	South Carolina
46	South Dakota
47	Tennessee
48	Texas
49	Utah
50	Vermont
51	Virginia
53	Washington
54	West Virginia
55	Wisconsin
56	Wyoming
72	Puerto Rico

Appendix B

Status Codes

A status code tells you how an address was corrected or standardized. The code contains six characters, and each character tells you something about how the record was changed.

Value	What Changed
1st Character	
S	Nothing was truncated
A	The address line was truncated to fit in your field
B	The address line and city name were truncated to fit in your fields
C	The city name was truncated to fit in your field
2nd Character	
0	No significant change to the city, state, ZIP TM , or ZIP + 4
1	ZIP
2	City
3	City and ZIP
4	State
5	State and ZIP
6	City and state
7	City, state, and ZIP
8	ZIP + 4
9	ZIP and ZIP + 4
A	City and ZIP + 4
B	City, ZIP, and ZIP + 4
C	State and ZIP + 4
D	State, ZIP, and ZIP + 4
E	City, state, and ZIP + 4
F	City, state, ZIP and ZIP + 4
3rd Character	
0	No significant change to the predirectional, primary (street) name, postdirectional, or suffix
1	Suffix
2	Predirectional
3	Predirectional and suffix
4	Postdirectional
5	Suffix and postdirectional
6	Predirectional and postdirectional
7	Predirectional, suffix, and postdirectional
8	Primary name
9	Primary name and suffix
A	Predirectional and primary name
B	Predirectional, primary name, and suffix
C	Primary name and postdirectional
D	Primary name, suffix, and postdirectional
E	Predirectional, primary name, and postdirectional
F	Predirectional, primary name, postdirectional, and suffix
4th Character	
0	No change in county, carrier route, DP2 and/or DPC, or unit designator
1	Unit designator
2	DP2 and/or DPC
3	DP2 and/or DPC and unit designator
4	Carrier route
5	Carrier route and unit designator
6	Carrier route, and DP2, and/or DPC
7	Carrier route, and DP2 and/or DPC, and unit designator
8	County number
9	County number and unit designator
A	County number, and DP2, and/or DPC
B	County number, DP2 and/or DPC, and unit designator
C	County number and carrier route
D	County number, carrier route, and unit designator
E	County number, carrier route, and DP2, and/or DPC
F	County number, carrier route, and DP2 and/or DPC, and unit designator
5th Character	
0	No change to the LOT (line of travel), LOT Order (line of travel order), or Urb (Urbanization code)
1	LOT
2	LOT Order
3	LOT and LOT Order
4	Urb
5	Urb and LOT
6	Urb and LOT Order
7	Urb, LOT, and LOT Order
6th Character	
n/a	This character is reserved for future expansion of the status code. It will always be zero.

Appendix C

Error Codes

Code	Description
E101	The data contains either 1) no last-line data at all, 2) only a city name, or 3) only a state. There is not enough last-line data to justify going any further with the assignment process.
E194	Failure to match to Unique ZIP Code. ZIP Code, directional, street suffix, or primary number may be missing or invalid.
E212	The input data does not include a recognizable city name, so look-up in the City directory is impossible. The input data includes a ZIP Code, but no match for it can be found in the ZCF directory. This error does not indicate whether or not the state data is valid.
E213	The input data includes a valid state and something that might be a city name, but no match for them can be found in the City directory. The input data does not include a ZIP Code, so no look-up in the ZCF directory is possible.
E214	The input data includes something that might be a city name, and something that might be a ZIP Code. However, both of them are invalid, because no match for either of them can be found in the City and ZCF directories.
E216	The input data may or may not include a ZIP Code. If a ZIP is input, no match for it can be found in the ZCF directory. When looking up the input city and state in the city directory, the software finds two or more matching cities in the state. Because the input ZIP is invalid or missing, the software cannot break the tie between possible city matches, nor determine which ZIP to assign.
E302	Nothing in the input record is recognized as a primary address line.
E412	No match for the input street name can be found in the ZIP+4 directory. Perhaps the street name is misspelled or incorrectly abbreviated. If the input address line contains extraneous data that might be interpreted as a part of the street name, this also can result in E412.
E413	The ZIP+4 directory contains two or more street names that resemble the input street name. However, the resemblance between potential matches is so close that one cannot be chosen.
E420	Nothing in the input address line is recognized as a primary range (house number). This may mean that the primary range truly is missing, or that it cannot be recognized.
E421	According to the ZIP+4 directory, the input primary range (house number) is invalid. That is, it does not fall within any of the ranges listed for that street, route, or building.
E422	The ZIP+4 directory indicates that a predirectional is required to choose between possible matches. However, either the input data does not include a predirectional, or the input predirectional is invalid (not among those listed for the street).
E423	The ZIP+4 directory indicates that a suffix is required to choose between possible matches. However, either the input data does not include a suffix, or the input suffix is invalid (not among those listed for the street).
E425	The ZIP+4 directory indicates that both a suffix and a directional are required to choose between possible matches. However, either the input data does not include a suffix and directional, or the input suffix and directional are invalid (not among those listed for the street).
E427	The ZIP+4 directory indicates that a postdirectional is required to choose between possible matches. However, either the input data does not include a postdirectional, or the input postdirectional is invalid (not among those listed for the street).
E428	The input ZIP is missing or invalid. The City directory shows that the input city/state covers two or more ZIP Codes. The ZIP+4 directory has matches for the address line in at least two of those ZIP Codes. The software can't use the invalid input ZIP to break the tie on the address line, nor use the address line to choose a valid ZIP.
E429	The input city name is missing or invalid. The ZCF directory shows that the input ZIP applies to two or more city names. The ZIP+4 directory has matches for the address line in at least two of those cities. The software can't use the input city to break the tie on the address line, nor use the address line to choose a city name.
E430	The ZIP+4 directory contains two or more address lines that resemble the input address line. However, the similarity between potential matches is so close that one cannot be chosen over another.
E431	The ZIP+4 directory contains two or more address lines that resemble the input address line. To break the tie, the Puerto Rican urbanization is needed. However, either the input address does not include an urbanization, or the input urbanization is incorrect.
E439	Exact match made in EWS directory.
E500	E500 is a catch-all error code assigned when no more specific code can be assigned. Usually it indicates that no potential match meets the minimum confidence level, or that there is an unresolved tie between two or more potential matches.
E501	The address is foreign—that is, not within the domestic U.S., territories, or possessions.
E502	All of the fields used in address look-up are blank. There may be data in non-address fields.
E503	The input address lies outside the area covered by the ZIP+4 directory. This error usually occurs when a state or regional ZIP+4 directory is being used, or a custom directory created through the Extract utility. E503 should not occur when using the National directory (zip4us.dir). If it does, it may mean that you have found a conflict between the City and ZCF directories and the National directory. You should report it to your Address Management Systems Office by sending them an e-mail (amsssupport.ncsc@usps.gov).
E504	The address line matches at least two ZIP+4 records. The ranges of those ZIP+4 records overlap, and the software cannot break the tie. E504 indicates a flaw in the ZIP+4 database. You should report it to your Address Management Systems Office by sending them an e-mail (amsssupport.ncsc@usps.gov).
E505	The record matches an undeliverable default record. If further information were provided, such as secondary address data or firm name, the address would have been assigned.
E600	According to the USPS, no delivery to this address is possible. The address is listed in the ZIP+4 directory, but the record is tagged as undeliverable by the USPS. Most often, it might be a cemetery, parking ramp, or condemned building. E600 is unusual because it indicates a successful match to the ZIP+4 directory. All other error codes mean that there was no match. Undeliverable addresses are tagged as "errors" for the convenience of users who suppress mailing to "bad" addresses—unassigned and undeliverable records.
E601	Not a valid delivery point. ZIP+4 removed.
Note:	Some addresses that are valid may be marked incorrectly as undeliverable. This is caused by an error in the USPS data. If you find such an address, you should report it to your Address Management Systems Office by sending them an e-mail (amsssupport.ncsc@usps.gov).