

## DSF<sup>2</sup>® Layout C

Field Name	Length	Description - only fields requested will be added
zip4	4	ZIP + 4 Code. If input file has a 9 or 10 digit ZIP Code™ field, this data will be placed in that field
city13	13	Standardized 13-character city name as provided by USPS®.
urban	28	Urbanization (for Puerto Rican addresses)
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
status	6	Status/error codes (See Appendix A for status codes and Appendix B for error codes)
zipflg	1	Information about ZIP Code 1 = ZIP Code not changed, address is in a valid range for input ZIP Code 2 = ZIP Code changed, address is in a valid range for new ZIP Code Blank = ZIP Code could not be validated
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
county	3	Three digit county code
addresstyp	1	Address match type: F = Company G = General delivery H = High-rise apartment or office building M = Military P = Post Office™ box R = Rural route or highway contract S = Street Blank = Unassigned (not ZIP + 4 coded)
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)
dpv_flag	1	Indicates whether or not a record matched to the DPV™ database Y = Delivery point validated; primary number valid and secondary number (when present) valid D = Valid primary number; input missing secondary number (primary for RR) S = Valid primary number; secondary number (primary for RR) present and not confirmed, or a single trailing alpha on a primary number was dropped to make a DPV match N = No delivery point validation 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	<p>DPV footnotes</p> <p>AA = Input address ZIP + 4 match</p> <p>A1 = Input address ZIP + 4 not matched</p> <p>BB = Input address DPV matched (all components)</p> <p>CC = Input address primary number DPV matched, secondary number not DPV matched, secondary number not required</p> <p>C1 = Input address primary number DPV matched, secondary number not DPV matched, secondary number required</p> <p>F1 = Input address matches a military address</p> <p>G1 = Input address matches a general delivery address</p> <p>IA = Informed address identified</p> <p>M1 = Input address primary number missing</p> <p>M3 = Input address primary number invalid</p> <p>N1 = Input address DPV primary number matched, secondary number missing, secondary number required</p> <p>NL = An NCOA<sup>Link</sup> move address cannot be DPV confirmed. A return code of NL means that the NCOA<sup>Link</sup> directory data does not exactly match the DPV directory data. This may happen because the NCOA<sup>Link</sup> directories are updated more frequently than the DPV directories.</p> <p>PB = Identified PO Box Street Address</p> <p>P1 = Input address missing PO, RR, or HC Box number</p> <p>P3 = Input address PO, RR, or HC Box number invalid</p> <p>RR = Input address DPV matched to CMRA</p> <p>R1 = Input address DPV matched to CMRA but PMB number not present</p> <p>R7 = Address assigned to phantom route R777 or R779</p> <p>TA = Input address primary number DPV matched by dropping trailing alpha</p> <p>U1 = Input address matches a unique address</p>
lac_rtncod	2	<p>Post Office LACS<sup>Link</sup> return codes</p> <p>A = LACS<sup>Link</sup> record match, and a converted address is provided in the address data fields.</p> <p>00 = No match, and no converted address</p> <p>09 = LACS<sup>Link</sup> matched an input address to an old address, which is a 'high-rise default' address, no new address is provided</p> <p>14 = Found LACS<sup>Link</sup> record, but could not convert the data to a deliverable address</p> <p>92 = LACS<sup>Link</sup> record matched after dropping the secondary number from input address</p> <p>Blank = Record not presented for LACS<sup>Link</sup> match</p>
ste_rtncod	2	<p>Post Office Suite<sup>Link</sup> return codes</p> <p>A = Suite<sup>Link</sup> record match, suite information is added to the address</p> <p>00 = No match, and no suite information added</p> <p>Blank = Record not presented for Suite<sup>Link</sup> match</p>
dsf2wkseq	8	Walk sequence number
dsf2adrtyp	1	<p>Address type</p> <p>B = Business</p> <p>R = Residential</p> <p>G = General delivery</p> <p>U = Undetermined</p> <p>Blank = Non-match to Delivery Sequence File</p>
dsf2eduind	1	<p>Educational indicator</p> <p>Y = Address is an educational institution</p> <p>N = Address is not an educational institution</p> <p>Blank = No lookup attempted</p>
dsf2dlvtyp	1	<p>Delivery type code</p> <p>1 = Curb - A delivery point with a mail receptacle located at the curb</p> <p>2 = NDCBU - A delivery point that is serviced by cluster boxes, also known as Neighborhood Delivery and Collection Box Units (NDCBU) assigned to a bank of boxes or floors</p> <p>3 = Central - A delivery point within a building that has two or more ZIP + 4 codes</p> <p>4 = Door slot - A delivery point not serviced by Curb, NDCBU or Central</p> <p>Blank = Non-match to Delivery Sequence File</p>

dsf2season	1	Seasonal indicator Y = Seasonal address N = Not a seasonal address Blank = Record not presented for seasonal match (not ZIP + 4 coded)
dsf2thrbk	1	Throwback indicator Y = PO Box Delivery. The address associated with this delivery point is a street address, however delivery is only made to the customer's PO Box address. DSF <sup>2</sup> will not cross-reference the street address to the appropriate PO Box. The USPS may not deliver mail addressed for the street delivery point to the PO Box unless the PO Box is also included in the address. N = Not a throwback address Blank = Record not presented to Delivery Sequence File (not ZIP + 4 coded)
dsf2drpind	1	Delivery point drop indicator The delivery point drop indicator specifies whether or not a delivery point is a drop site. A drop is a single delivery point or receptacle that services multiple families and/or businesses. The site distributes mail for a drop site internally. Commercial mailbox companies or Commercial Mail Receiving Agencies (CMRA's) are also classified as drop sites because the carrier delivers the mail to one point, and the company distributes mail to specific boxes. Y = Delivery point is a drop N = Delivery point is not a drop Blank = Record not presented to Delivery Sequence File (not ZIP + 4 coded)
dsf2drpcnt	3	Number of Deliveries at the Drop
dsf2nostat	1	USPS No Stat indicator Y = Update may be needed within the USPS delivery database N = No update needed within the USPS delivery database Blank = Record not presented to Delivery Sequence File (not ZIP + 4 coded)
dsf2score	2	Mail Score 1 = Address matched to the DSF <sup>2</sup> file 2 = Address marked as a seasonal address 3 = Primary address matched the DSF <sup>2</sup> file. However, the secondary address did not match to the DSF <sup>2</sup> file. This address may or may not be deliverable. 4 = Address did not match the DSF <sup>2</sup> file. Primary information is missing or invalid and prevented a direct match to the DSF <sup>2</sup> file. Record may be undeliverable. 5 = This score is not currently used 6 = Address marked as being vacant for 90 or more days. Address information is accurate but is undeliverable. 7 = Address fields may be incomplete or contain data that cannot match to the Delivery Sequence and ZIP + 4 files.
<b>Telephone Data</b>		
phone	10	Phone number
<b>Optional Flags</b>		
opt_flags	3	Optional return codes A = Advanced Address Correction U = Apartment/unit number corrected or appended B or P = Proprietary change of address
<b>Suppression Flags</b>		
supp_flags	10	Suppression & duplicate match flags A = Deceased B = DMA Do not mail C = Prison D = Duplicate record E = Keep record F = Non duplicate
<b>Geocode Data</b>		
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.

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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

### 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
<b>1st Character</b>	
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
<b>2nd Character</b>	
0	No significant change to the city, state, ZIP <sup>TM</sup> , 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
<b>3rd Character</b>	
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
<b>4th Character</b>	
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
<b>5th Character</b>	
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
<b>6th Character</b>	
n/a	This character is reserved for future expansion of the status code. It will always be zero.

## Appendix B

### 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	<b>Failure to match to Unique ZIP Code. ZIP Code, directional, street suffix, or primary number may be missing or invalid.</b>
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	<b>Exact match made in EWS directory.</b>
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	<b>The address is foreign—that is, not within the domestic U.S., territories, or possessions.</b>
E502	<b>All of the fields used in address look-up are blank. There may be data in non-address fields.</b>
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 (amssupport.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 (amssupport.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	<b>Not a valid delivery point. ZIP+4 removed.</b>
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 (amssupport.ncsc@usps.gov).