

NM911 GIS Monthly Data Upload Assessment Report

Mora County – April, 2025

The Earth Data Analysis Center (EDAC) at the University of New Mexico (UNM) performs data acquisition and processing in support of the New Mexico 911 (NM911) Program. In collaboration with Geodata Providers, EDAC collects geospatial data for Road Centerlines, Address Points, and Boundary data such as Administrative, PSAP, and ESN/ESZ from each provider's respective jurisdiction (municipality, county, tribal entity). These datasets are standardized to NM911 State Schema, and delivered to the Public Safety Answering Points (PSAP) to support emergency response operations. If data are available, EDAC generates a monthly assessment, which details the number of features analyzed, processed, along with identified inaccuracies or discrepancies. This report serves as a feedback tool to assist the data providers to enhance the accuracy and integrity of the geospatial datasets.

The New Mexico Geodata Providers are required to upload their monthly data to the NM911 Program via NM911 data portal (<https://portal.nm911.org>) by the 15th of each month. Upon submission, EDAC conducts necessary QA processes/procedures for data verification and validation to prepare data for integration into the statewide master database. The monthly data assessment report will be made available to data providers via the NM911 Data Portal.

Note: Data that were uploaded after 15th of each month will not be processed until the next month.

Data Upload Summary

The following table shows the datasets provided by Mora County, date uploaded, total number of features uploaded.

Feature Class	Date Uploaded	Record Count
Mora_AP_edit.shp	04/17/2025	4,595
Mora_RC_edit.shp	04/17/2025	763

Road Centerlines

Schema Mapping Summary: The table below shows the schema mapping (crosswalk) between road centerline data submitted by the data provider and the NM911 state schema. Please note that if you change your schema, EDAC will automatically adjust the crosswalk/mapping to conform with your data.

State Schema	Local Schema
SEGMENT_ID	Unknown
L_ADD_LOW	L_ADD_LOW
L_ADD_HIGH	L_ADD_HIGH
R_ADD_LOW	R_ADD_LOW
R_ADD_HIGH	R_ADD_HIGH
STR_DIR	STR_DIR
STR_PRETYPE	STR_PRETYP
STR_NAME	STR_NAME
STR_SUFFIX	STR_SUFFIX
POST_DIR	POST_DIR
STR_ALIAS	STR_ALIAS
COMNAME_L	COMNAME_L
COMNAME_R	COMNAME_R
MSAG_COM_L	MSAG_COM_L
MSAG_COM_R	MSAG_COM_R
COUNTY_L	COUNTY_L
COUNTY_R	COUNTY_R
ZIPCODE_L	ZIPCODE_L
ZIPCODE_R	ZIPCODE_R
ESN_L	ESN_L
ESN_R	ESN_R
STR_NAME_1	Unknown
ROAD_LABEL	ROAD_LABEL
RD_CLASS	RD_CLASS
ONE_WAY	ONE_WAY
SPEED	SPEED
F_ELEV	F_ELEV
T_ELEV	T_ELEV
EXCEPTION	EXCEPTION
DPID	DPID
NO_MSAG	NO_MSAG

Road Centerline Data Import Errors

No import errors were found.

Assessment Results: The following are the various checks performed on road centerline data to ensure data accuracy and integrity.

Error Check Type	Number of Errors
Road Centerline Left Low Address Is Greater Than Left High Address	0
Road Centerline Right Low Address Is Greater Than Right High Address	0
Road Centerline Must Be Broken And Snapped At Road Intersections	12
Road Centerline Must Not Have Right Side Overlapping Address Range	1
Road Centerline Must Not Have Left Side Overlapping Address Range	1
Road Centerline Has Invalid Geometry	0
Road Centerline Should Not Be Multipart	0
Road Centerline Length Must Not Be Less than 15 ft	0
Road Centerline Must Not Have Duplicate Geometry	0
NM911 Topology Checks	37
Road Centerline Must Not Have Dangles	0

Instruction: Please note that some of these errors are interlinked i.e. correction in any of the error check types will effect other check types; also road centerline error correction may lead to error correction in address points and vice versa. If any of these discrepancies are acceptable, note as an exception in CI_Exception/C1_Exception/Exception column in your GIS data. The NM911 Program will consider these codes as exceptions and will not error check these data records. Once we have these exceptions recorded, your error totals will likely be greatly reduced.

CI_Exception/C1_Exception/Exception:

- If using MapSAG: It assigns an exception code.
- If not using MapSAG: Please mark "Y" or "1" if there is an exception and leave the column blank if no exception.

Please refer to Frequently Asked Questions (FAQ) section on the NM911 Data Portal or NM911 Website for error check types where exceptions are valid.

Address Points

Schema Mapping Summary: The table below shows the schema mapping between address point data submitted by the data provider and the NM911 state schema.

State Schema	Local Schema
STRUCT_ID	Unknown
ADD_NUMBER	ADD_NUMBER
ADD_SUFFIX	ADD_SUFFIX
STR_DIR	STR_DIR
STR_PRETYPE	STR_PRETYP
STR_NAME	STR_NAME
STR_SUFFIX	STR_SUFFIX
POST_DIR	POST_DIR
STR_NAME_1	Unknown
MSAG_COM	MSAG_COM
COMNAME	COMNAME
STR_ALIAS	STR_ALIAS
ESN	ESN
ZIPCODE	ZIPCODE
DPID	DPID
EXCEPTION	EXCEPTION
ROAD_LABEL	ROAD_LABEL

Address Points Data Import Errors

The total number of errors found:213

Please see [MO_CO_202504.gdb/NM911_ERRORS/Address_Point_Import_Errors](#)

The following table show import errors by type:

Import Errors	Count
Streetname cannot be Null or whitespace.	213

Please note the data in the import error featureclass will not be included in the state master database until they are corrected by the geodata providers.

Assessment Results: The following are the various checks performed on address point data to ensure data accuracy and integrity.

Error Check Type	Number of Errors
Address Point Address Number Cannot Be 0, Negative, NULL Or Blank	1
Address Point Street Name Cannot Be Blank Or NULL	0
Address Point Full Road Name Must Match Road Centerline Full Road Name	73
Address Point Address Number Should Be Within Road Centerline Address Range	103
Address Point Has Invalid Geometry	0
Address Point Must Not Have Duplicate Geometry	0
NM911 Topology Checks	27

Instruction: Please note that some of these errors are interlinked i.e. correction in any of the error check types will effect other check types; also road centerline error correction may lead to error correction in address points and vice versa. If any of these discrepancies are acceptable, note as an expectation in CI_Exception/C1_Exception/Exception column in your GIS data. The NM911 Program will consider these codes as exceptions and will not error check these data records. Once we have these exceptions recorded, your error totals will likely be greatly reduced.

CI_Exception/C1_Exception/Exception:

- If using MapSAG: It assigns an exception code.
- If not using MapSAG: Please mark "Y" or "1" if there is an exception and leave the column blank if no exception.

Please refer to Frequently Asked Questions (FAQ) section on the NM911 Data Portal or NM911 Website for error check types where exceptions are valid.

Fishbone Analysis

The Fishbone Analysis will assist NM911 Geodata Providers to improve the quality and accuracy of their data.

Analysis: Fishbone map lines visually represent a straight-line comparison between the address point locations and their interpolated locations along a road centerline address range. This analysis highlights discrepancies in address placement within the range, allowing geodata providers to QA their data to improve the quality and integrity.

Interpretation: Fishbone line intersections represent a series of addresses within a range that match the attributes on a centerline, but the arc directionality is modeled against the standard convention. This may have caused by centerline arcs that were digitized opposite to the actual address point ranges or incorrect address ranges. If fishbone lines intersects with road centerlines, then address range sides may have incorrect parity or the address points that were not able to geocode.

Error Detection: The Length field in the fishbone feature class can be used to identify potential errors. If the fishbone line segments appear longer than expected, it may indicate inaccurately placed address points that do not fall with the corresponding road centerline address range. These discrepancies can highlight areas where further review or correction is needed. See image below for more information.



Example: Fishbone Lines - Correct (Left); Fishbone Lines - Error, due to incorrect street address range (Right)

Geodatabase Contents

The accompanying zip file contains a file geodatabase with data provided by the local agency that was imported into the state schema. Also included are the results of data integrity checks run by EDAC. These results can assist local agency to improve data quality.

Source Geodatabase: [MO_CO_202504.gdb](#)

NM911 Feature Dataset: Contains following feature classes

- AddressPoints – Data provided by the local agency, imported into State Schema
- AdministrativeBoundary – Boundary of local agency jurisdiction. Ex: County, City/Town, Village, and Tribe
- RoadCenterline – Data provided by the local agency, imported into State Schema
- NM911_Topology – Topology Errors found in the data provided by the local agency.
- Fishbone – Lines created between actual address point location and their interpolated positions along the corresponding road centerline.

NM911_ERRORS Feature Dataset: Contains error/discrepancy data after data validation

- Address_Point_Import_Errors – Data provided by the local agency that were not imported into State Schema due to error/mismatch. More detailed explanation can be found under ERROR column inside the attribute table. The table also includes ORIGINAL FID to identify records in data provided by local agency.
- Road_Centerline_Import_Errors – Data provided by the local agency that were not imported into State Schema due to error/mismatch. More detailed explanation can be found under ERROR column inside the attribute table. The table also includes ORIGINAL FID to identify records in data provided by local agency.
- Other Error feature classes – These are categorized by the error check type. The name of the feature class defines the error type.

They vary from provider depending on the data quality.

Contact Information

For General Questions:

Tyler Fossett, NM911 GIS Coordinator

Email: Tyler.Fossett@dfa.nm.gov

Phone: 505-500-5587 (c)

For Technical Questions:

Sandeep Talasila

Earth Data Analysis Center, The University of New Mexico

Email: nm911@edac.unm.edu

Phone: 505-277-3622 x 250