




Substantial Damage Estimator 3.0

Purpose of the SDE 3.0

Why Use SDE 3.0

- The Substantial Damage Estimator (SDE) Version 3.0 Tool was developed by the Federal Emergency Management Agency (FEMA) to assist state and community officials in estimating Substantial Damage to residential and non-residential structures
- Damage must be determined as substantial or non-substantial in order to properly permit repairs

How Does it Benefit the Floodplain Administrator?

- A formalized and organized approach for estimating Substantial Damage and Substantial Improvement
 - Reasonable and defensible structure-specific values and damage estimates
 - Demonstration of compliance with the NFIP requirements for Substantial Damage determinations
 - A FEMA-accepted method for determining Substantial Damage and Substantial Improvement
 - Structure-specific summary reports that can be included with Substantial Damage determination letters sent to structure owners
 - Summary reports that can be used in support of the Increased Cost of Compliance (ICC) claims
- 

How Does it Work?

- Simply plug in information about the structure:
 - Type of structure: Single family, Business, Condo, etc.
 - Size of structure
 - Foundation
- Input the estimated percent of damage for each element of the structure:
 - Roof
 - Exterior (siding)
 - HVAC
- The program spits out a percentage



Real-Time

Download Program

Go to <http://www.fema.gov/> & type SDE in the search box

The Installation Guide provides detailed installation instructions: https://www.fema.gov/sites/default/files/2020-07/sde_read_me_-_SDE_3.0_Tool_Installation_Guide.pdf

Open Program

Perform a Substantial Damage Estimation



Questions?



Pre-loading Data in the SDE 3.0

What if Half the Work was Already Done BEFORE the Disaster?

Can your community employ a college or even high school temporary intern to input data?

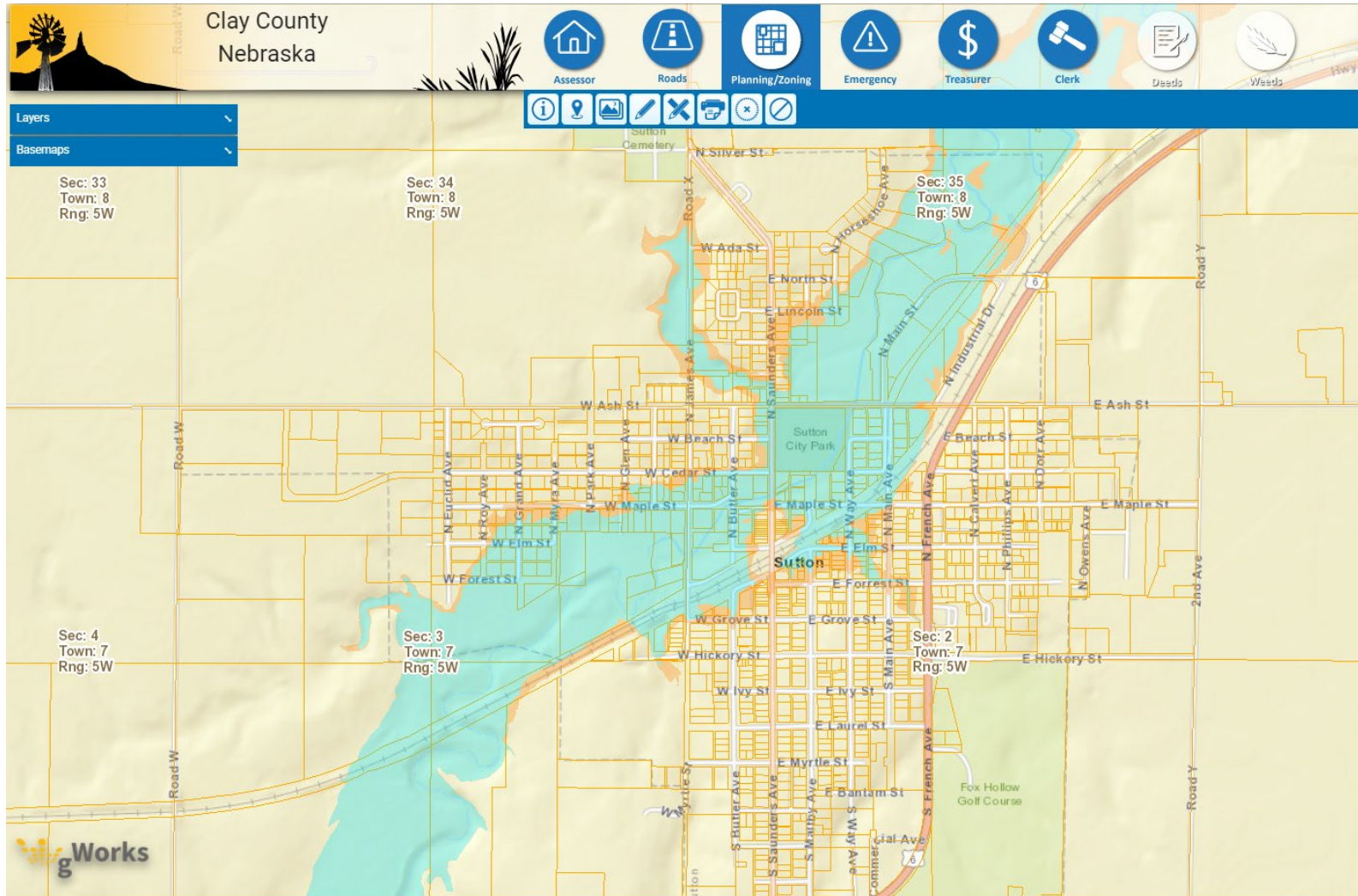
You Can Create a Database of Properties in the Floodplain NOW and Know What Properties to Assess in Times of Disaster

Use the assessor page to input basic information about structures in the floodplain



Real-Time Using the Assessor Page

Sutton, NE



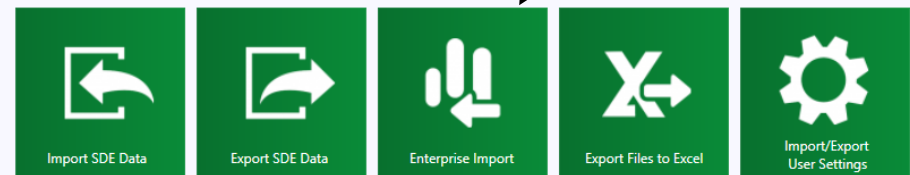
Uploading a Batch Property List

SDE 3.0 Property Upload Tool

- Lists of properties can be uploaded using an Excel spreadsheet
- Can save time for communities with many structures in floodplain
- Uses the “Enterprise Import” function



Select the option you would like to use:



Close

Step 1: Create the List of Properties

- We recommend using your county assessor's G-works (or similar) website
 - Users can pull a list of properties into an excel sheet
 - Assessor's office may be able to help
 - Works best with a floodplain layer
 - <https://msc.fema.gov/portal/home>

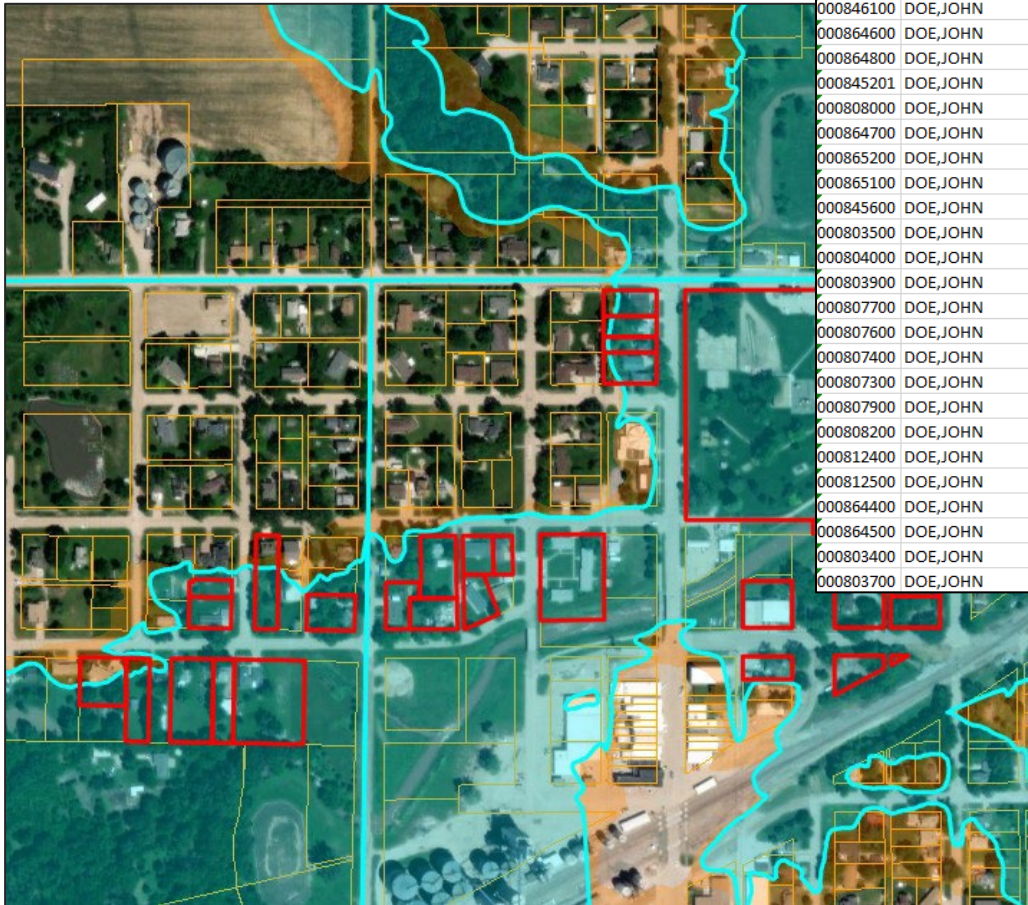
Step 1: Create the List of Properties

- Hold “Ctrl” and select each parcel
- Then click “Export to XLS”

The screenshot shows a GIS application interface. At the top, there is a search bar with the text "Search Address, Owner, PID, STR, GIS Layers". Below the search bar, a "Results" panel is open, displaying "Want To..." options: "Export To XLS" (highlighted with a red box), "Export To PDF", and "Show All Features". Below these options, there is a "Filter Results By" section with checkboxes for "Floodplain", "Parcels" (checked), and "Sections". At the bottom of the results panel, a table titled "Parcels (2) ▲" is displayed, showing two rows of property data.

PID	OwnerName	PropertyAddress	OwnerAddress	Legal
000822800	SUTTON CITY		PO BOX 430 SUTTON NE 68979	0-0-0 LC 16 THR BLK 17 ADD SUTTON CITY
000822900	[REDACTED]		PO BOX 489 SUTTON NE 68979	0-0-0 LC 6 THRU BLK 18 ADD SUTTON CITY

Step 1: Create the List of Properties



PID	OwnerName	PropertyAddress	OwnerAddress
000846400	DOE,JOHN	410 W MAPLE SUTTON	31353 DEERFIELD CIRCLE CLAY CENTER NE 68933
000846300	DOE,JOHN	406 W MAPLE SUTTON	PO BOX 218 SUTTON NE 68979
000846100	DOE,JOHN	312 W MAPLE SUTTON	PO BOX 113 SUTTON NE 68979-0113
000864600	DOE,JOHN	207 N MYRA SUTTON	207 NORTH MYRA AVENUE SUTTON NE 68979
000864800	DOE,JOHN		506 WEST MAPLE SUTTON NE 68979
000845201	DOE,JOHN		101 LOCH VIEW DRIVE HASTINGS NE 68901
000808000	DOE,JOHN	205 W MAPLE SUTTON	PO BOX 93 SUTTON NE 68979
000864700	DOE,JOHN	506 W MAPLE SUTTON	506 WEST MAPLE SUTTON NE 68979
000865200	DOE,JOHN		612 WEST MAPLE SUTTON NE 68979
000865100	DOE,JOHN	512 W MAPLE SUTTON	PO BOX 145 SUTTON NE 68979
000845600	DOE,JOHN	403 W MAPLE SUTTON	PO BOX 273 SUTTON NE 68979
000803500	DOE,JOHN	411 N MAIN SUTTON	PO BOX 724 SUTTON NE 68979
000804000	DOE,JOHN	303 E BEECH SUTTON	PO BOX 695 SUTTON NE 68979
000803900	DOE,JOHN	408 WAY SUTTON	2831 TIERRA DRIVE APT 202 LINCOLN NE 68516
000807700	DOE,JOHN	203 W MAPLE SUTTON	PO BOX 102 SUTTON NE 68979
000807600	DOE,JOHN	201 W MAPLE SUTTON	201 WEST MAPLE SUTTON NE 68979
000807400	DOE,JOHN	204 W CEDAR SUTTON	204 WEST CEDAR STREET SUTTON NE 68979
000807300	DOE,JOHN	311 N BUTLER SUTTON	PO BOX 58 SUTTON NE 68979
000807900	DOE,JOHN	304 N JAMES SUTTON	PO BOX 134 SUTTON NE 68979
000808200	DOE,JOHN	208 W CEDAR SUTTON	31080 ROAD X SUTTON NE 68979
000812400	DOE,JOHN		302 NORTH BUTLER SUTTON NE 68979
000812500	DOE,JOHN		302 NORTH BUTLER SUTTON NE 68979
000864400	DOE,JOHN	204 N GRAND SUTTON	111 CRESTVIEW DRIVE SUTTON NE 68979
000864500	DOE,JOHN		207 NORTH MYRA AVENUE SUTTON NE 68979
000803400	DOE,JOHN		PO BOX 92 SUTTON NE 68979
000803700	DOE,JOHN		111 WEST FAIRFIELD CLAY CENTER NE 68933

Step 2: Format the Excel List

- To upload the list to SDE 3.0, it must be formatted to be compatible
- Use the recommended headings in the User Guide
- Template on our website under “Other Publications”:

<https://dnr.nebraska.gov/floodplain/digital-desk-reference>













Post-Disaster Information

▶ [Substantial Damage Assessment Handbook](#)

▶ [Substantial Damage Assessment Handbook: Forms and Templates](#)

▶ [Other Publications](#)

-  [FEMA Region VII - Managing the Floodplain Post-Disaster](#)
-  [After the Flood](#)
-  [Starting Your Recovery - Fact Sheet \(2021\)](#)
-  [How to File Your Flood Insurance Claim](#)
-  [Flood - Coming Home](#)
-  [NFIP Resource Library](#)
-  [Beyond the Flood - A Prevention Guide for Personal Health and Safety](#)
-  [Wind vs Water Damage - Fact Sheet \(2021\)](#)
-  [Basement Flooding Infographic \(2021\)](#)
-  [SDE 3.0 Enterprise Upload Template](#)

Other Resources

▶ [Welcome Guide for New Floodplain Administrators](#)



File Home Insert Page Layout Formulas Data Review View Help OnBase Reporting ACROBAT ArcGIS

Cut Copy Paste Format Painter Clipboard

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General \$ % .00 →.0

Conditional Formatting Format as Table

A7

1	Structure Owner Last Name	Structure Owner First Name	Phone Number	Street Number	Street Name	Street Suffix	Apartment, Unit, Etc	City	State	Cou
2	<i>*Recommended</i>	<i>*Recommended</i>	<i>*Optional</i>	<i>*Required</i>	<i>*Required</i>	<i>*Required</i>	<i>*Optional</i>	<i>*Recom</i>	<i>*Recomm</i>	<i>*Rec</i>
3	<i>Fill all cells or delete unused columns</i>									
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Basement Flooding Infographic (2021)

SDE 3.0 Enterprise Upload Template

Other Resources

Welcome Guide for New Floodplain Administrators

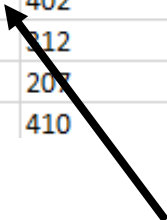
Step 2: Format the List – Required Items

- Must specify Residential or Non-Residential
 - Must have columns for Street Number, Street Name, and Street Suffix
 - May separate First and Last Name columns, or put full name in one and delete the other
- 

Step 2: Format the List

- Every cell must be occupied

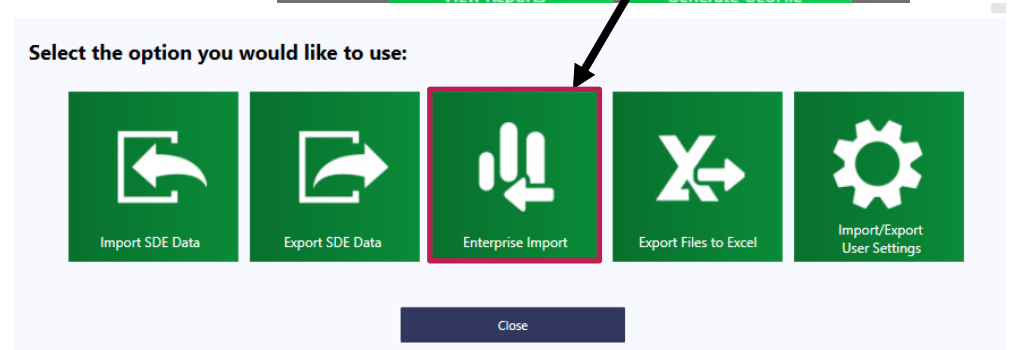
Structure Owner Last Name	Structure Owner First Name	Phone Number	Street Number	Street Name	S
Doe	John	402-471-0640	412	West Maple	S
Doe	Jane	402-471-0641	406	West Maple	S
Doe	John		402	West Maple	S
Doe	Jane	402-471-0643	412	West Maple	S
Doe	John	402-471-0644	207	North Myra	S
Doe	Jane	402-471-0645	410	North Main	S



Entry won't upload. Use
N/A or 0 if information is
missing

Step 3: Upload to SDE 3.0

- Use the Enterprise Import function



Step 3: Upload to SDE 3.0

- Reference the correct “Sheet” name

SDE Substantial Damage Estimator 3.0

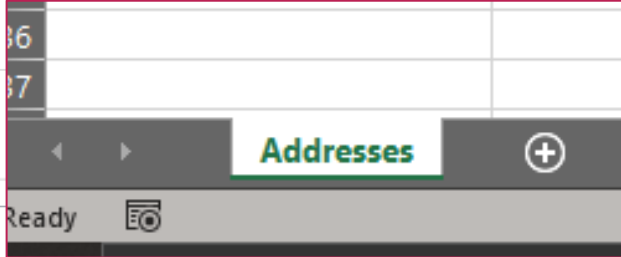
Enterprise Import

This sheet was called “Addresses”

Please set these options for MS Excel Import

Enter the existing name of the sheet from the selected file.

Sheet Name: [Click here to format your Excel sheet](#)



Map Your Data

(The columns from the table above have been extracted and loaded into the 'Select a Field' controls below. Use 'Select a Field' controls to map the data from

Saved "Enterprise Import Column Mappings" are pre-defined settings that have been created by the user to help aid in pre-populating the column field mappings below. (Note: You will still need to select the parsing method where applicable.)

Owner/Address Information

Structure Owner First Name:	Structure Owner Last Name:	Phone Number:	Street Number:	Street Name:	Street Suffix:
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Step 3: Upload to SDE 3.0

- Click "Click here to format your Excel sheet"

Enterprise Import

To use "Enterprise Import", please select a file.

Get File

Please set these options for MS Excel Import

Enter the existing name of the sheet from the selected file.

Sheet Name: Addresses

Click here to format your Excel sheet

	Structure Owner La...	Structure Owner Fi...	Phone Number	Street Number	Street Name	Street Suffix	Apartment, Unit, Etc	City	State	County/Parish	Zip (code)	NFIP Commu
▶	Doe	John	402-471-0640	412	West Maple	Street	N/A	Sutton	Nebraska	Clay	68979	
	Doe	Jane	402-471-0641	406	West Maple	Street	N/A	Sutton	Nebraska	Clay	68979	
	Doe	John	402-471-0642	402	West Maple	Street	N/A	Sutton	Nebraska	Clay	68979	
	Doe	Jane	402-471-0643	312	West Maple	Street	N/A	Sutton	Nebraska	Clay	68979	
	Doe	John	402-471-0644	207	North Myra	Street	N/A	Sutton	Nebraska	Clay	68979	
	Doe	Jane	402-471-0645	410	North Main	Street	N/A	Sutton	Nebraska	Clay	68979	
	Doe	John	402-471-0646	302	East Beech	Street	N/A	Sutton	Nebraska	Clay	68979	
	Doe	Jane	402-471-0647	505	North Main	Street	N/A	Sutton	Nebraska	Clay	68979	
	Doe	John	402-471-0648	509	North Main	Street	N/A	Sutton	Nebraska	Clay	68979	
	Doe	Jane	402-471-0649	511	North Saunders	Street	N/A	Sutton	Nebraska	Clay	68979	
	Doe	John	402-471-0650	509	North Saunders	Street	N/A	Sutton	Nebraska	Clay	68979	
	Doe	Jane	402-471-0651	504	North Main	Street	N/A	Sutton	Nebraska	Clay	68979	
	Doe	John	402-471-0652	306	East Beach	Street	N/A	Sutton	Nebraska	Clay	68979	
	Doe	Jane	402-471-0653	205	West Maple	Street	N/A	Sutton	Nebraska	Clay	68979	
	Doe	John	402-471-0654	506	West Maple	Street	N/A	Sutton	Nebraska	Clay	68979	
	Doe	Jane	402-471-0655	612	West Maple	Street	N/A	Sutton	Nebraska	Clay	68979	
	Doe	John	402-471-0656	303	North James	Street	N/A	Sutton	Nebraska	Clay	68979	
	Doe	Jane	402-471-0657	308	West Cedar	Street	N/A	Sutton	Nebraska	Clay	68979	
	Doe	John	402-471-0658	305	North Clark	Street	N/A	Sutton	Nebraska	Clay	68979	
	Doe	Jane	402-471-0659	403	West Maple	Street	N/A	Sutton	Nebraska	Clay	68979	
	Doe	John	402-471-0660	505	North Saunders	Street	N/A	Sutton	Nebraska	Clay	68979	
	Doe	Jane	402-471-0661	501	North Saunders	Street	N/A	Sutton	Nebraska	Clay	68979	

Step 3: Upload to SDE 3.0

- Click “Click to use table above to map data” button

ment, Unit, Etc	City	State	County/Parish	Zip (code)	NFIP Community ID	NFIP Community N...	Latitude	Longitude	Re
	Sutton	Nebraska	Clay	68979	310045	Sutton, City of	40	100	Re
	Sutton	Nebraska	Clay	68979	310045	Sutton, City of	40	100	Re
	Sutton	Nebraska	Clay	68979	310045	Sutton, City of	40	100	Re
	Sutton	Nebraska	Clay	68979	310045	Sutton, City of	40	100	Re
	Sutton	Nebraska	Clay	68979	310045	Sutton, City of	40	100	Re
	Sutton	Nebraska	Clay	68979	310045	Sutton, City of	40	100	Re
	Sutton	Nebraska	Clay	68979	310045	Sutton, City of	40	100	Re
	Sutton	Nebraska	Clay	68979	310045	Sutton, City of	40	100	Re
	Sutton	Nebraska	Clay	68979	310045	Sutton, City of	40	100	Re
	Sutton	Nebraska	Clay	68979	310045	Sutton, City of	40	100	Re
	Sutton	Nebraska	Clay	68979	310045	Sutton, City of	40	100	Re
	Sutton	Nebraska	Clay	68979	310045	Sutton, City of	40	100	Re
	Sutton	Nebraska	Clay	68979	310045	Sutton, City of	40	100	Re
	Sutton	Nebraska	Clay	68979	310045	Sutton, City of	40	100	Re
	Sutton	Nebraska	Clay	68979	310045	Sutton, City of	40	100	Re
	Sutton	Nebraska	Clay	68979	310045	Sutton, City of	40	100	Re
	Sutton	Nebraska	Clay	68979	310045	Sutton, City of	40	100	Re
	Sutton	Nebraska	Clay	68979	310045	Sutton, City of	40	100	Re
	Sutton	Nebraska	Clay	68979	310045	Sutton, City of	40	100	Re
	Sutton	Nebraska	Clay	68979	310045	Sutton, City of	40	100	Re
	Sutton	Nebraska	Clay	68979	310045	Sutton, City of	40	100	Re
	Sutton	Nebraska	Clay	68979	310045	Sutton, City of	40	100	Re

Click to use table above to map data

Step 3: Upload to SDE 3.0

- Scroll down to “Map Your Data”

ID	Address	Street	City	State	Zip	City	State	Zip	City
675	211 East Maple	Street	N/A	Sutton	Nebraska	Clay	68979	310045	Sutton, City of
676	205 East Maple	Street	N/A	Sutton	Nebraska	Clay	68979	310045	Sutton, City of
677	309 North Way	Street	N/A	Sutton	Nebraska	Clay	68979	310045	Sutton, City of
678	311 North Way	Street	N/A	Sutton	Nebraska	Clay	68979	310045	Sutton, City of

Map Your Data

(The columns from the table above have been extracted and loaded into the 'Select a Field' controls below. Use 'Select a Field' controls to map the data from the table above.)

Saved "Enterprise Import Column Mappings" are pre-defined settings that have been created by the user to help aid in pre-populating the column field mappings below. (Note: You will still need to select the parsing method where applicable.)

Owner Last Name:	Phone Number:	Street Number:	Street Name:	Street Suffix:	Post Geographical
Mapped Column Name	Mapped Column Name	Mapped Column Name	Mapped Column Name	Mapped Column Name	Mapped Column Name
Select a Field	Select a Field	Select a Field	Select a Field	Select a Field	Select a Field
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Parsing	Parsing	Parsing	Parsing	Parsing	Parsing
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

City Name:	Latitude:	Longitude:
Mapped Column Name	Mapped Column Name	Mapped Column Name
Select a Field	Select a Field	Select a Field
<input type="text"/>	<input type="text"/>	<input type="text"/>

Step 3: Upload to SDE 3.0

- “Map” the data to the correct columns using the drop-down lists
- Select the correct parsing for names and addresses

Owner/Address Information

Structure Owner First Name:	Structure Owner Last Name:	Ph
Mapped Column Name	Mapped Column Name	Ma
<input type="text"/>	<input type="text"/>	
Select a Field	Select a Field	Se
<input type="text"/>	<input type="text"/>	
Structure Owner Last Name		
Structure Owner First Name	Selection...	
Phone Number		
Street Number		
Street Name		
Street Suffix		
Apartment, Unit, Etc		
City		
State		
County/Parish		
Zip (code)		
NFIP Community ID		
NFIP Community Name		
Latitude		
Longitude		
Residential or Non-Residential (structure type)		
Year of Construction		
Total Square Footage		

Community Name:

ed Column Name	Ma
<input type="text"/>	
a Field	Se
<input type="text"/>	

Fire Number:

ed Column Name	Lo
<input type="text"/>	Ma
a Field	Se
<input type="text"/>	

SDE is a tool provided by FEMA to help local officials admin

Step 3: Upload to SDE 3.0

- “Map” the data to the correct columns using the drop-down lists
- Select the correct parsing for names and addresses

The screenshot displays a web-based data mapping interface. It is divided into two main sections: "Owner/Address Information" and "Subdivision Information".

Owner/Address Information:

- Structure Owner First Name:** Includes a text input field for "Mapped Column Name" and a "Select a Field" dropdown menu.
- Structure Owner Last Name:** Includes a text input field for "Mapped Column Name" and a "Select a Field" dropdown menu.
- Parsing:** Includes a "Make Selection..." dropdown menu. A list of parsing options is visible, with "John" selected and highlighted in yellow. Other options include "John Doe" and "Doe, John".
- NFIP Community ID:** Includes a text input field for "Mapped Column Name" and a "Select a Field" dropdown menu.
- NFIP Community Name:** Includes a text input field for "Mapped Column Name" and a "Select a Field" dropdown menu.

Subdivision Information:

- Subdivision:** Includes a text input field for "Mapped Column Name" and a "Select a Field" dropdown menu.
- Parcel Number:** Includes a text input field for "Mapped Column Name" and a "Select a Field" dropdown menu.

At the bottom of the interface, there is a taskbar with several icons representing different data sources or tools.

Step 3: Upload to SDE 3.0

- Once all columns have been mapped, click “Import Data”
- If it works, a message will display showing the number of records added

The screenshot displays the SDE 3.0 interface for data import. It features several mapping sections with input fields and dropdown menus. A dark blue button labeled "Import Data" is highlighted with a white border and a blue outline. Below the button, a dialog box titled "Enterprise Import" is open, displaying the message: "Mapped 39 records of 39 records. Wrote 39 records into the database." with an "OK" button. The background interface includes sections for "Longitude:" and "First Floor Elevation:" with corresponding mapping fields.

SDE 3.0 Links

- User Manual and Field Workbook
https://www.fema.gov/sites/default/files/2020-07/sde_3.0_user_manual_field_workbook_0.pdf
- Tool Installation Guide
https://www.fema.gov/sites/default/files/2020-07/sde_read_me_-_SDE_3.0_Tool_Installation_Guide.pdf
- Best Practices https://www.fema.gov/sites/default/files/2020-07/SDE_Best_Practices.pdf
- Nebraska SDE Handbook
https://dnr.nebraska.gov/sites/dnr.nebraska.gov/files/doc/floodplai n/resources/20230630_eSDAHandbookInteractive.pdf

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