

Combining Address Fields

Most often, geocoding requires that the house number, street direction, street name and street type are combined into one field. Therefore, tables where this information are in separate fields will need to be combined. There are two different ways to combine these fields depending on the format of the table. (.dbf or .xlsx)

Add and Combine Fields in a .dbf table

Click on the **Add Data** button and the .dbf table to an mxd. Click on the **List by Source** button at the top of the **Table of Contents** to view the table. Scrolling down the theme list may be required to view the table. **Right click** on the table and **Open** it.

Some field names maybe truncated and underscores maybe used as spaces. This occurs to field names over 10 characters and field names containing spaces when converting an excel file (.xlsx) to a dbase file. (.dbf)

OID	NAME	HOUSE_NUMB	STREET_DIR	STREET_NAM	STREET_TYP
0	Almost Family - Hikes Point	3403		Breckenridge	Ln
1	Almost Family - Third Street	4028	S	Third	St
2	Christian Homes of Kentucky	920	S	4th	St
3	The Coriathian	1702		Gardiner	Ln
4	Daybreak Adult Center	2120		Payne	St
5	ETA Day Center	724	S	44th	St
6	Fern Creek/ Highview United Minis	7502		Tangelo	Dr
7	God's Day Care	1110	S	Preston	St
8	Highlands Community Ministries	2000		Douglass	Blvd
9	Hurstbourne Care Centre	2200		Stony Brook	Dr
10	Kaleidoscope	10634		Watterson	Tr

To add a new field that will contain the combined address, click on the **Table Options** button and select the **Add Field** button. In the **Add Field** window, type in **Address** in the Name field and select **Text** from the pulldown menu in the Type field. Click **OK**. A new field called **Address** should be added to the dbf file.

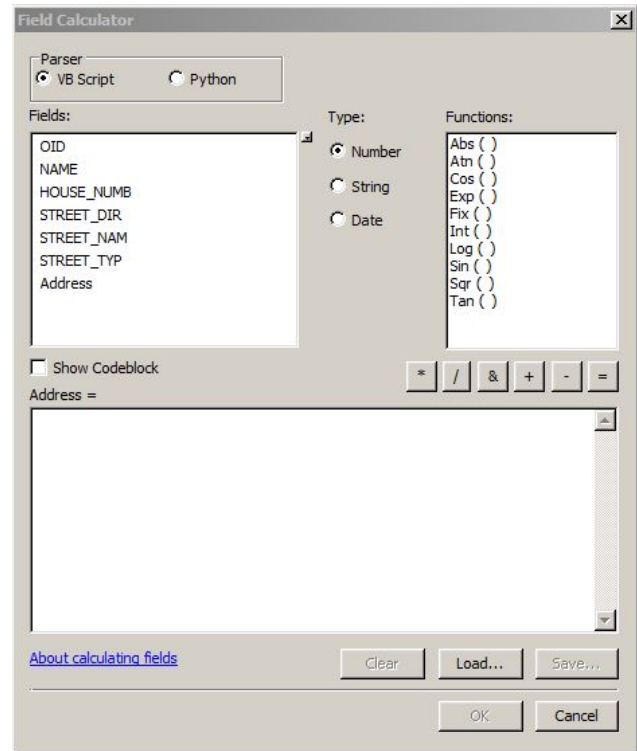
Name: Address
Type: Text
Field Properties
Length: 50
OK Cancel

OID	NAME	HOUSE_NUMB	STREET_DIR	STREET_NAM	STREET_TYP	Address
0	Almost Family - Hikes Point	3403		Breckenridge	Ln	
1	Almost Family - Third Street	4028	S	Third	St	
2	Christian Homes of Kentucky	920	S	4th	St	
3	The Coriathian	1702		Gardiner	Ln	
4	Daybreak Adult Center	2120		Payne	St	
5	ETA Day Center	724	S	44th	St	
6	Fern Creek/ Highview United Minis	7502		Tangelo	Dr	
7	God's Day Care	1110	S	Preston	St	
8	Highlands Community Ministries	2000		Douglass	Blvd	
9	Hurstbourne Care Centre	2200		Stony Brook	Dr	
10	Kaleidoscope	10634		Watterson	Tr	

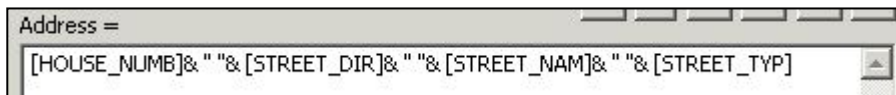
Combining Address Fields

Right click on the Address field and select **Field Calculator**. Click the **Yes** button if the message window that pops up. **Field Calculator** window will appear. **It is important that the next steps are followed carefully.** The figure below shows the first part of the combining expression.

- **Double Click** HOUSE_NUMB
- **Type:&" "&**
- **Double Click** STREET_DIR
- **Type:&" "&**
- **Double Click** STREET_NAM
- **Type:&" "&**
- **Double Click** STREET_TYP
- **Click OK.**



Closeup of the combining expression.



The combined Address field should look like this.

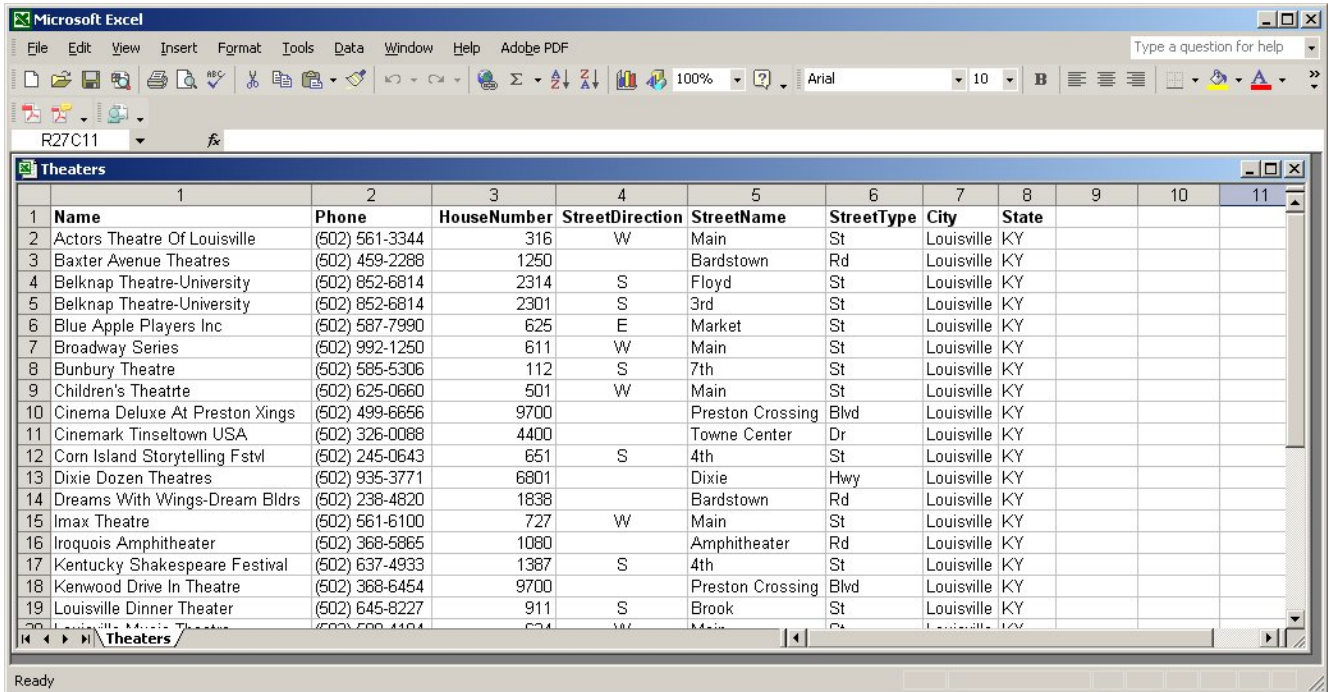
Address
3403 Breckenridge Ln
4028 S Third St
920 S 4th St
1702 Gardiner Ln
2120 Payne St
724 S 44th St
7502 Tangelo Dr
1110 S Preston St
2000 Douglass Blvd
2200 Stony Brook Dr
10634 Watterson Tr

Combining Address Fields

Add and Combine (Concatenate) Fields in an excel table

Adding and combining fields in an excel table must be done on your local network or in a LOJIC Virtual Network Desktop where the Excel software is available. **Excel tables cannot be edited in ArcGIS. They are read only in ArcGIS.**

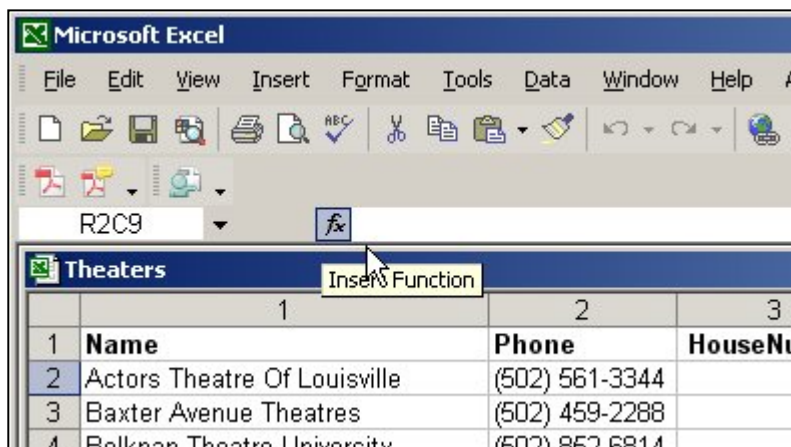
Open the **Excel** table with the addresses that need to be combined.



Add the word **“Address”** to the top of a column.

Click on the **first cell below** the “Address” cell and click on the **Insert Function** button in the Formula Bar.

	8	9	10
	State	Address	
sville	KY		
sville	KY		
sville	KY		
sville	KY		



Combining Address Fields

To create a function, scroll down and select the **Concatenate** function from the list.
Build the formula:

Text1 – select the HouseNumber cell in the same row at the cell under the Address column.

Text2 – Type in " " to place a space

Text3 - select the StreetDirection cell in the same row at the cell under the Address column.

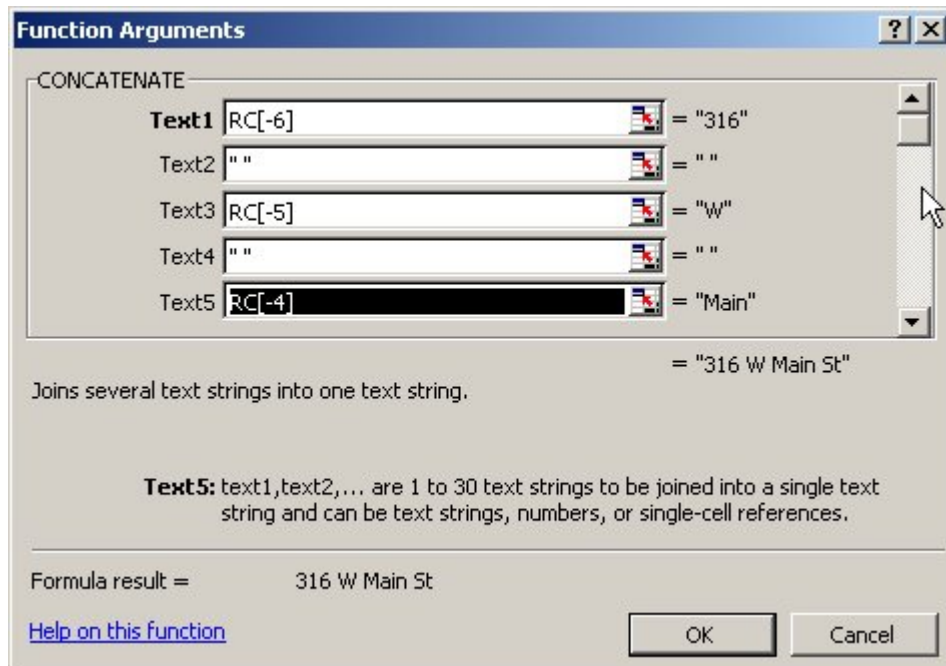
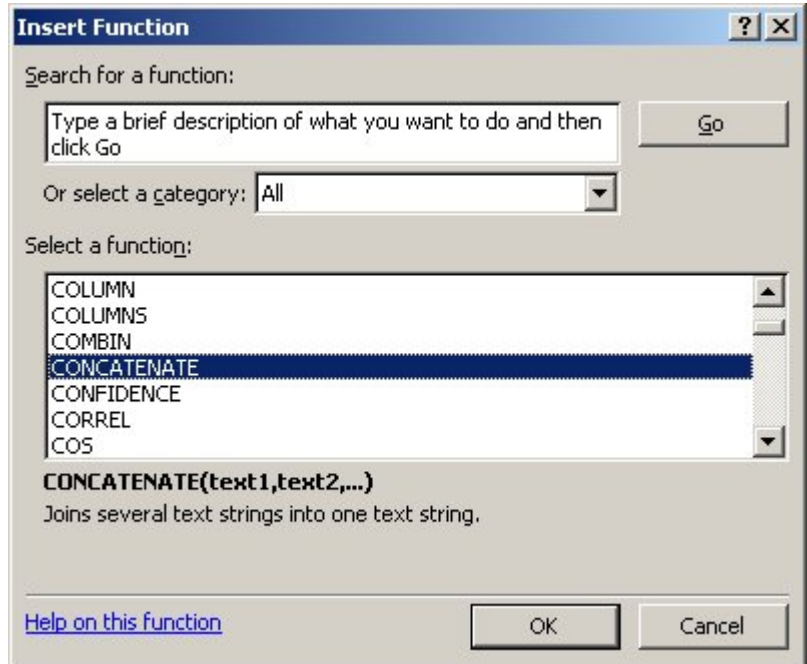
Text4 – Type in " " to place a space

Text5 - select the StreetName cell in the same row at the cell under the Address column.

Text6 – Type in " " to place a space

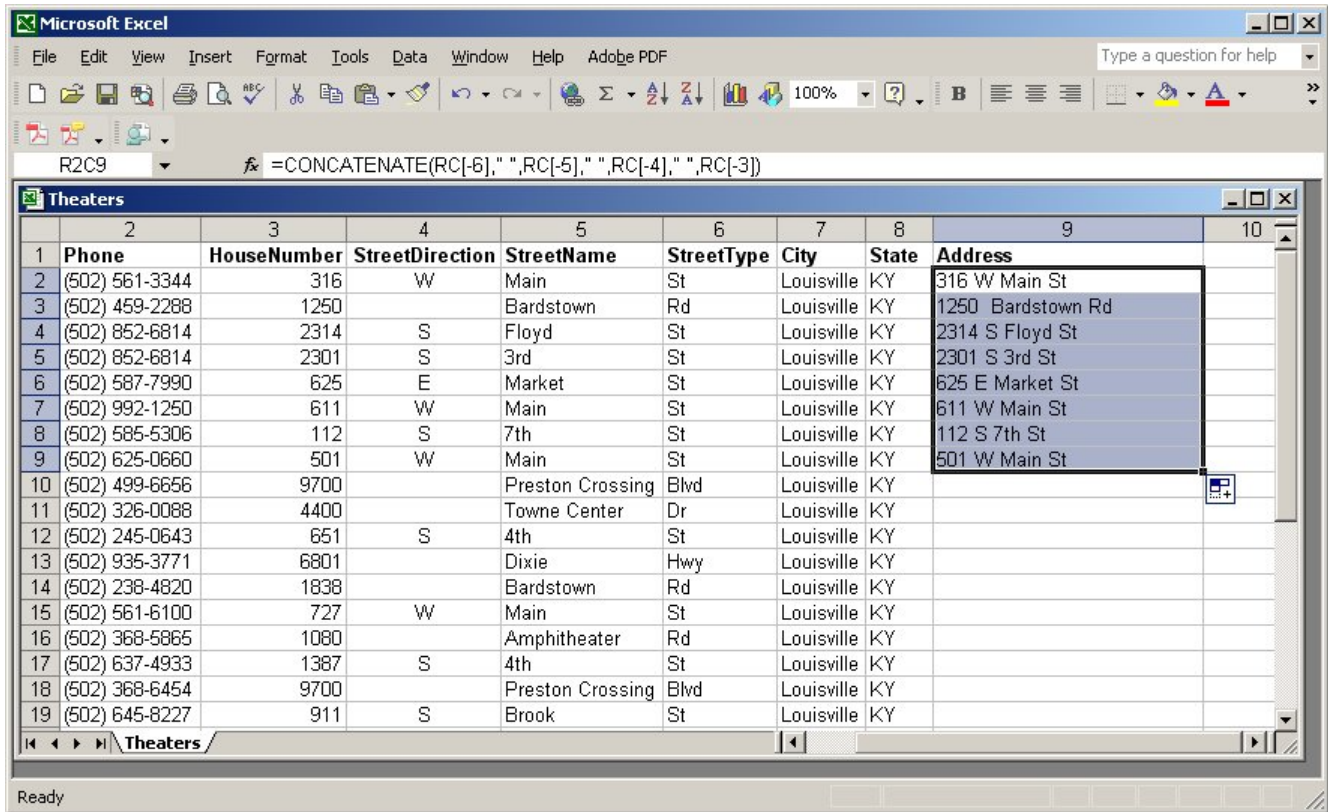
Text7 - select the StreetType cell in the same row at the cell under the Address column.

The figure below shows how the arguments should look while it is being created. Notice the Formula results. It should look like a combined address. Click the **OK** button if the address looks correct.



Combining Address Fields

Select the cell under the Address column that reads **316 W Main St** and drag the cursor down the column to populate the rest of the cells in that column.



The screenshot shows a Microsoft Excel spreadsheet titled "Theaters". The formula bar displays the formula: `=CONCATENATE(RC[-6],",",RC[-5],",",RC[-4],",",RC[-3])`. The spreadsheet has the following data:

	2	3	4	5	6	7	8	9	10
1	Phone	HouseNumber	StreetDirection	StreetName	StreetType	City	State	Address	
2	(502) 561-3344	316	W	Main	St	Louisville	KY	316 W Main St	
3	(502) 459-2288	1250		Bardstown	Rd	Louisville	KY	1250 Bardstown Rd	
4	(502) 852-6814	2314	S	Floyd	St	Louisville	KY	2314 S Floyd St	
5	(502) 852-6814	2301	S	3rd	St	Louisville	KY	2301 S 3rd St	
6	(502) 587-7990	625	E	Market	St	Louisville	KY	625 E Market St	
7	(502) 992-1250	611	W	Main	St	Louisville	KY	611 W Main St	
8	(502) 585-5306	112	S	7th	St	Louisville	KY	112 S 7th St	
9	(502) 625-0660	501	W	Main	St	Louisville	KY	501 W Main St	
10	(502) 499-6656	9700		Preston Crossing	Blvd	Louisville	KY		
11	(502) 326-0088	4400		Towne Center	Dr	Louisville	KY		
12	(502) 245-0643	651	S	4th	St	Louisville	KY		
13	(502) 935-3771	6801		Dixie	Hwy	Louisville	KY		
14	(502) 238-4820	1838		Bardstown	Rd	Louisville	KY		
15	(502) 561-6100	727	W	Main	St	Louisville	KY		
16	(502) 368-5865	1080		Amphitheater	Rd	Louisville	KY		
17	(502) 637-4933	1387	S	4th	St	Louisville	KY		
18	(502) 368-6454	9700		Preston Crossing	Blvd	Louisville	KY		
19	(502) 645-8227	911	S	Brook	St	Louisville	KY		

Save the excel file with the populated Address field. It now can be added to an .mxd for geocoding.