Land Value Grid Explanation

Don't forget to enable macros! ->

Outline of purpose verified sales data for a particular property class and from a given neighborhood is efficied into the spreadsheet. Calculations are automatically run against the entered data using approved sales analysis techniques to project a regression trend. From said trend, costs per unit are concluded to complete the land value atudu

Users will have the ability to quickly pair sales to calculate time adjustments as well as the ability to quickly visualize and exclude sales from the regression trend calculation.

Breakdown of primary worksheets

- The Global Settings tab stores user entered information as well as calculated information that
- The **Data Entry** tab provides a layout for users to enter relevant verified sales data for a given time **Aujustment** tab serves as an internace to pair sales and calculate a *percent per montin*
- time adjustment to apply to sales outside of the study period. This is not needed if only sales within the
- Calculations are applied against entered data to derive tabulated statistical observations on the Analysis tab. The tab is further utilized to visualize the effect each statistical observation has on the
- Once the line of best fit is finalized, the Conclusions tab is utilized to determine the indicated cost per unit of any sized parcel as it would fall on said line. Thus price intervals are determined and entered

Step by step process (simplified)

- 1. Save a new workbook for each neighborhood (land table) for each class.
- Enter verified sales data into established fields.
- 3. Pair sales to calculate monthly time adjustment if sales outside the time period are used.
- Remove sales as warranted.
- Review conclusions.

Step by step process (broken-down)

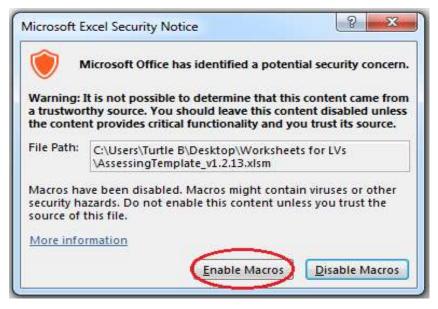
- 1. Enter Global Settings
- a. The dates of the study period should be entered.
- i. Note this area will also store information on time adjustments once calculated. Users can manually override the calculated time adjustment if they so choose.
- b. Take note of the Land to Building ratio tolerance.
- i. Once sales uata l'ias deen entereu, tris section will determine a Land Aliocation Multiplier. By default, the tolerance will automatically use statistics to establish parameters. In particular: Abstracted sales with an indicated LB Ratio that is plus or minus one standard deviation from the mean indicated LP Datio. Note the televance and concluded Land Allocation Multiplier can be everyde at the
- Populate Data Entry tab with verified sales data.
- a. Mandatory fields include:

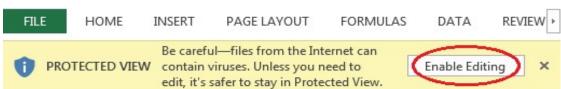
Valuation Method, Parcel Number, Sale Date, Sale Price, Total Acre, and Improvements Value.

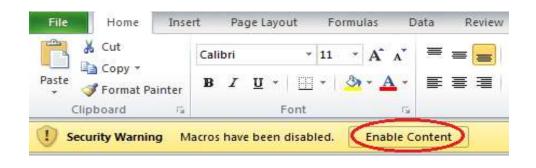
- b. For each row, be certain to select a Valuation Method.
 - i. Note that improved sales should be entered twice: Once using Abstraction and once using Allocation.

- c. Iniuiti-Farcei Sales siloulu olily de elitereu olice ulluei olie priiliary parcei liuliidei. De certaili to include the net sale price, net acres of all parcels included in the sale, and net building values (all improvement TCV/s) of all parcola included in the cale
- d. Improvement values should be as of the date of sale.
- The sheet is designed for entry or rotal Acres and rights or way to be separately listed for later exclusion from the total. If acreages are entered that are not inclusive of rights for way, then enter "0" in the right of way calumn
- 3. USE THE THILE AUJUSTRIENT TAD TO PENOTH PAILED SAIES ANALYSIS AND CARCULATE A MONTHING THILE adiantopservation of row will populate in the pottom section of the Time Aujustment tab for each row antarad on the Data Entry tah
- b. Sales can be added in the Data Entry tab to be used in the Time Adjustment pairing interface, even if said sales won't ultimately be used in the final land value conclusions.
- c. Use the first column of the bottom section of the Time Adjustment tab to designate "pair groups".
 - i. For instance, enter "1" to assign a sale to be pared.
 - ii. Enter "1" on another sale to pair it with the first sale.
 - iii. Do not enter a third "1" on another sale. Each pair group should only have two sales.
 - iv. There are 6 total groups available on the Time Adjustment interface.
- 4. Review the Analysis tab.
- a. An observation or row will populate for each row entered on the "Data Entry" tab. in the "Llee" collimby derault, newly entered data is automatically moldded unless specifically excluded in the "Hee" colliman exclusion comment should be entered in the appropriate column explaining the ະກະການປາກາຊາງ ປະກວນໄກເຂົາວ່າ ອາ ວ່າ ຣາສາການກໍ່ວ່າ ວາກ ປະກວນການ ເພື່ອການການ ການ ເພື່ອ ເຂົ້າການການ ເຂົ້າ ເຂົ້າການ podotivo or zoro valuos "
- Seek out observations with a zero or negative value in the "Adjusted Price Per Sq Ft" column and set their use to 0 in the "Use" column to correct the error.
- ii. Observations with a negative land residual (abstracted sales where the appraised building value exceeds the sale price) will cause this to happen.
- u. Data on the Analysis tab can be liltered and softed for review using the pre-established affows next to sach salumni.hoองได้เกิญ เก่ย inesidual Acre or inesidual อง Fr column mom smallest to largest can be very helpful for analysis. With such an array, the "Adjusted Price Per Sq Ft" column can be reviewed for a-typical observations. The principle of economies of scale tells us that we should expect the price enrinë thatกรรรรยามา ประจุบัณาที่ บัณารรวลให้กรรวสให้กรรณาเกาย enection me overall menu as observations number to zoom in to where the data is most dense. Especially large parcels or extremely high prices nor unit can recult in undecirably wide or tall charte
- ii. Note that while "not used" observations will not contribute to the calculation of the regression trend, the data points are still visible on the chart.
- 5. Review the Conclusions tab
- Alter establishing which observations will be used for land value determinations, the conclusions tab indicates the concluded value of a given area of land, based on its size, according to the regression
- i. The square foot table indicates concluded values for the intervals pre-canned in the square foot table of Assessing.net for interpolation.
- fact table of Accessing not for internalation
- b. Note: Other statistics on the Conclusions tab can be useful in conducting the analysis as well. Different acreage ranges may be entered to analyze statistics of sales within custom graduations.

- 6. A new workbook can be saved for each neighborhood, each year.
- a. This is useful to display conclusions.
- b. This is useful to justify conclusions.
- c. This is useful to monument improvement values as of the date of sale outside of your database.
- boundary and assumes the established neighborhood is homogeneous. The workbook is not designed
- o. Conclusions will require common sense, analysis, and appropriate judgement. This workbook is a tool and cannot conclude anything on its own. It falls to the user to appropriately consider and examine the data to eventually arrive at a reasonable conclusion. Developer/s of this workbook are not responsible for resulting conclusions, arrors or omissions. Hears of this workbook voluntarily assume all liabilities.







User Defined Section

Dates for sales period	
Enter the dates for the sales period:	4
Out Year Start:	4/1/2022
Out Year End:	3/31/2023
In Year Start:	4/1/2023
In Year End:	3/31/2024

Land to Building Ratio		
Enter the LB Ratio tolerance (optional):	4	
Set Min LB Ratio Abstracted Sales:	#DIV/0!	
Set Max LB Ratio Abstracted Sales:	#DIV/0!	

County & Unit Name		
Full local unit name if applicable:		
Full county name:		

Workbook Version: v1.3.2

Title	Value
Midpoint Study Period:	4/1/2023
Time Adjustment Per Month:	#DIV/0!

The LB Ratio of Abstracted Sales is used to calculate a "global" or weighted The Land Allocation Multiplier is applied to verified improved sales to conc Some Abstracted Sales will have an unusually low or high LB ratio indicatio

To the left, set the min & max LB ratio tolerance to prevent outliers from (By default, unless overridden, this automatically excludes Abstracted sales

Title	Value
Weighted Land Residual:	\$0
Weighted Sale Price:	\$0
Land Allocation Multiplier:	#DIV/0!

Туре	Desc
Vacant	Vacant Sales
Abstraction	Improved w/ Land Residual
Allocation	Improved w/ Land Allocation

Informational Section

Dates for sales period

Explanation

Sales outside of the study period will be adjusted to the midpoint of the Study Period

The rate of adjustment is a **percent per month** which is calculated on the "Time Adj" sheet

Land to Building Ratio

I mean LB ratio (the Land Allocation Multiplier).

lude a price per unit using the Allocation method.

n and will disproportionally weight the Land Allocation Multiplier calculation.

contributing to the calculation.

s with an LB ratio indication plus or minus one standard deviation from the mean.)

Explanation

The sum of the indicated Land Residuals of Abstracted Sales within specified tolerance

The sum of the Sale Prices of Abstraced Sales within specifed tolerance

This is the concluded LB ratio applied to sales using the Allocation method.

Verified Sales

Explanation

Verified vacant sales should be entered on the DataEntry tab

Improved sales should be entered and assigned the Abstraction valuation method

Improved sales should be entered and assigned the Allocation valuation method

Meaning: **Improved** sales should be twice entered!

Valuation	Parcel		Sale	Sale
Method	Number	Address	Date	Price
Abstraction	78-0340-0028-01-6	404 N MAIN	04/06/23	\$95,000
Allocation	78-0340-0028-01-6	404 N MAIN	04/06/23	\$95,000
Abstraction	71-1120-0041-00-1	1125 WAYNE ST, NILES	10/31/2022	\$125,000
Allocation	71-1120-0041-00-1	1125 WAYNE ST, NILES	10/31/2022	\$125,000
Abstraction	78-0340-0007-01-9	379 N MAIN	5/27/2022	\$86,600
Allocation	78-0340-0007-01-9	379 N MAIN	5/27/2022	\$86,600
Abstraction	78-0340-0007-01-9	379 N MAIN	05/27/22	\$86,600
Allocation	78-0340-0007-01-9	379 N MAIN	05/27/22	\$86,600
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Court	Liber/ Page	Total Acre	Total Sq Ft	Total Front Ft	ROW (Sq Ft)	Imprvmts Value	Other Parcels in Sale
Conf.	rage						III Sale
		0.17	7,405 7,405	100 100	0	\$98,635 \$98,635	
		0.17	7,403	100	0	\$104,473	
		0.173003	7,536	100	0	\$104,473	
		0.08	3,485	100	0	\$60,762	
		0.08	3,485	100	0	\$60,762	
		0.08	3,659	100	0	\$59,907	
		0.08	3,659	100	0	\$59,907	
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Comments	Use?
Comments	1=Yes, 0=No
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Pair	Valuation	Parcel		Sale	Sale
Group	Method	Number	Address	Date	Price
1					
2	Allocation	78-0340-0007-01-9	379 N MAIN	5/27/2022	\$86,600
	Allocation	78-0340-0007-01-9	379 N MAIN	5/27/2022	\$86,600
3					
4					
5					
6					

Designate sale pairings here. Assign the same group number to two sales you wish t

Pair	Valuation	Parcel		Sale	Sale
Group	Method	Number	Address	Date	Price
	Abstraction	78-0340-0028-01-6	404 N MAIN	4/6/2023	\$95,000
	Allocation	78-0340-0028-01-6	404 N MAIN	4/6/2023	\$95,000
	Abstraction	71-1120-0041-00-1	1125 WAYNE ST, NILES	10/31/2022	\$125,000
	Allocation	71-1120-0041-00-1	1125 WAYNE ST, NILES	10/31/2022	\$125,000
	Abstraction	78-0340-0007-01-9	379 N MAIN	5/27/2022	\$86,600
2	Allocation	78-0340-0007-01-9	379 N MAIN	5/27/2022	\$86,600
	Abstraction	78-0340-0007-01-9	379 N MAIN	5/27/2022	\$86,600
2	Allocation	78-0340-0007-01-9	379 N MAIN	5/27/2022	\$86,600
	Abstraction	0	0	1/0/1900	\$0
	Allocation	0	0	1/0/1900	\$0
	Abstraction	0	0	1/0/1900	\$0
	Allocation	0	0	1/0/1900	\$0
	Abstraction	0	0	1/0/1900	\$0
	Allocation	0	0	1/0/1900	\$0
	Abstraction	0	0	1/0/1900	\$0
	Allocation	0	0	1/0/1900	\$0
	Abstraction	0	0	1/0/1900	\$0
	Allocation	0	0	1/0/1900	\$0
	Abstraction	0	0	1/0/1900	\$0
	Allocation	0	0	1/0/1900	\$0
	Vacant	0	0	1/0/1900	\$0

Residual	Front	Imprvmts	Land	Indicated	Unadjusted	Unadjusted	# of
Acre	Ft	Value	Residual	LB Ratio	\$ / acre	\$ / Sq Ft	Days
0.080	100.00	\$60,762					0
0.080	100.00	\$60,762					U

Indicated % 1

to pair.

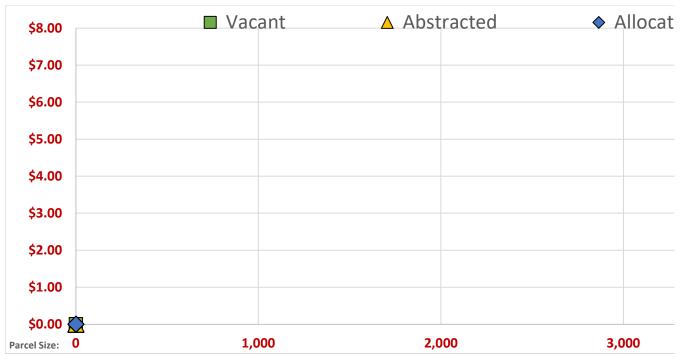
*If all sales are within the study time

Residual	Front	Imprvmts	Land	Indicated	Unadjusted	Unadjusted
Acre	Ft	Value	Residual	LB Ratio	\$ / acre	\$ / Sq Ft
0.170	100.00	\$98,635	-\$3,635	-0.0383	-\$21,382	-\$0.49
0.170	100.00	\$98,635				
0.173	100.00	\$104,473	\$20,527	0.1642	\$118,653	\$2.72
0.173	100.00	\$104,473				
0.080	100.00	\$60,762	\$25,838	0.2984	\$322,975	\$7.41
0.080	100.00	\$60,762				
0.080	100.00	\$60,762	\$25,838	0.2984	\$322,975	\$7.41
0.080	100.00	\$60,762				
0.000	100.00	\$0	\$0			
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0.000	100.00	\$0	\$0			
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0.000	100.00	\$0				
0.000	100.00	\$0	\$0	N/A		

# of	%	% per	% per
Months	Change	Month	Year
0			
0			
			1
time adju	stment per month:	#DIV/0!	

period, a time adjustment does not need to be calculated.

time adjustment per month:



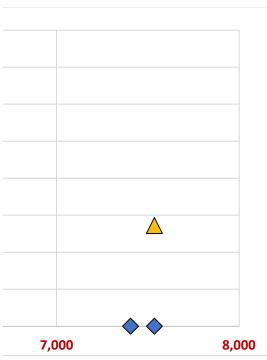
You cannot begin a new analysis using this workbook after 01/06/2020. Please obtain the latest version from

Valuation	Use?				Imprvmts	Land
Method	1=Yes, 0=No	Parcel Number	Sale Date	Sale Price	Value	Residual
Abstraction	1	78-0340-0028-01-6	4/6/2023	\$95,000	\$98,635	(\$3,635)
Abstraction	1	71-1120-0041-00-1	10/31/2022	\$125,000	\$104,473	\$20,527
Abstraction	1	78-0340-0007-01-9	5/27/2022	\$86,600	\$60,762	\$25,838
Abstraction	1	78-0340-0007-01-9	5/27/2022	\$86,600	\$59,907	\$25,838
Allocation	1	78-0340-0028-01-6	4/6/2023	\$95,000	\$98,635	#DIV/0!
Allocation	1	71-1120-0041-00-1	10/31/2022	\$125,000	\$104,473	#DIV/0!
Allocation	1	78-0340-0007-01-9	5/27/2022	\$86,600	\$60,762	#DIV/0!
Allocation	1	78-0340-0007-01-9	5/27/2022	\$86,600	\$59,907	#DIV/0!
Abstraction	1					\$0
Allocation	1					#DIV/0!
Abstraction	1					\$0
Allocation	1					#DIV/0!
Abstraction	1					\$0
Allocation	1					#DIV/0!
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Abstraction	1					\$0
Allocation	1					#DIV/0!
Abstraction	1					\$0
Allocation	1					#DIV/0!
Vacant	1					\$0

red >	Not Used	Power (Used Sal	es)
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Tony or Warren at that time. Your conclusions and completed work will still be visible in this workbook

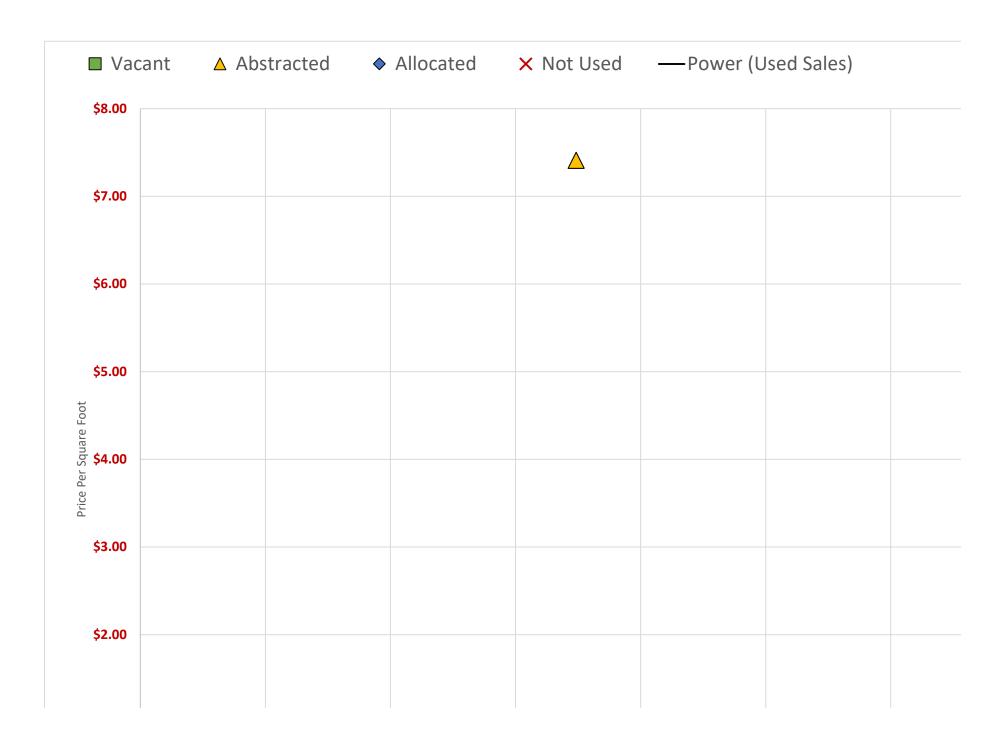
Indicated	Resid	Resid	Unadjust	Unadjust	Months To	Time	Adjusted
LB Ratio	Acre	Sq Ft	\$ / acre	\$ / Sq Ft	Mid-Point	Adjust	Sale Price
(0.0383)	0.170	7,405	(\$21,382)	(\$0.49)	0	0.00%	(\$3,635)
0.1642	0.173	7,536	\$118,653	\$2.72	5	0.00%	\$20,527
0.2984	0.080	3,485	\$322,975	\$7.41	10	0.00%	\$25,838
0.2984	0.080	3,485	\$322,975	\$7.41	10	0.00%	\$25,838
#DIV/0!	0.170	7,405			0	0.00%	
#DIV/0!	0.173	7,536			5	0.00%	
#DIV/0!	0.080	3,485			10	0.00%	
#DIV/0!	0.080	3,485			10	0.00%	
#DIV/0!	0.000	0			1479		
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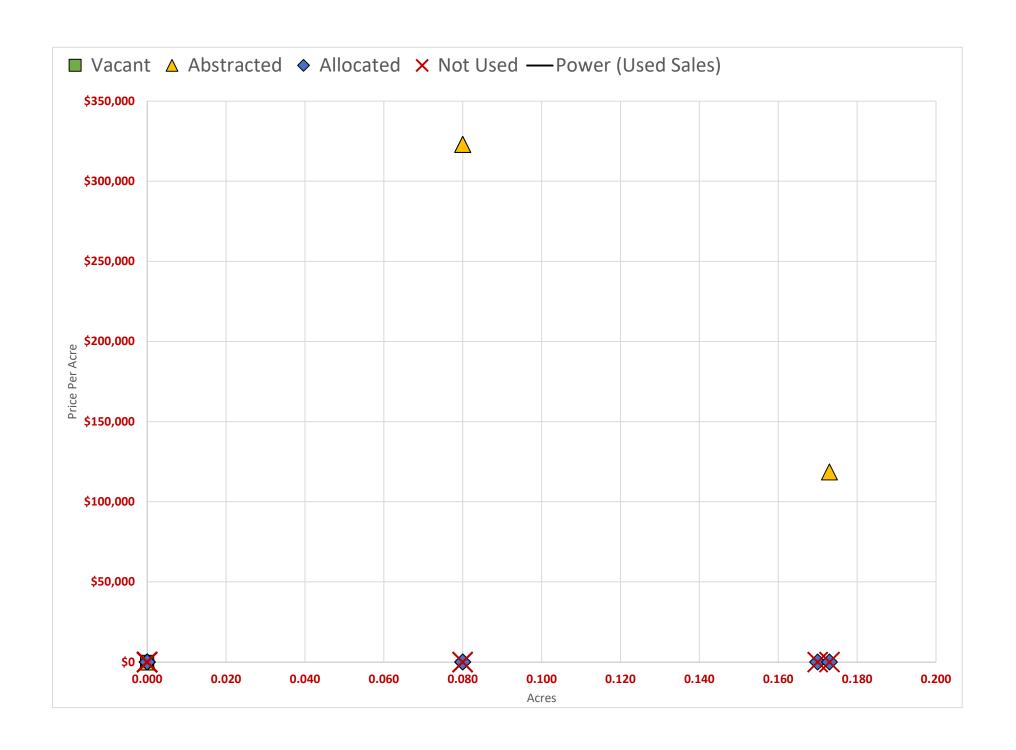


con the other tabs.

Adjust \$	Adjust \$	Adjust \$
Per Acre	Per Sq Ft	Per Front Ft
(\$21,382)	(\$0.49)	(\$36.35)
\$118,653	\$2.72	\$205.27
\$322,975	\$7.41	\$258.38
\$322,975	\$7.41	\$258.38

Exclusion Comment





		If you're using the Square Footage Table in Assessing.net										
Curve Fo	ormula	SqFt	Acres	\$/sf	\$/ac	Concluded \$						
From	Chart	2,500	0.057	#VALUE!	#VALUE!	#VALUE!						
Formula Pt 1:	#VALUE!	5,000	0.115	#VALUE!	#VALUE!	#VALUE!						
Formula Pt 2:	#VALUE!	7,500	0.172	#VALUE!	#VALUE!	#VALUE!						
	1	10,000	0.230	#VALUE!	#VALUE!	#VALUE!						
If the above for	mulas	12,500	0.287	#VALUE!	#VALUE!	#VALUE!						
are not calculat	ing, make	15,000	0.344	#VALUE!	#VALUE!	#VALUE!						
sure that any sa	ales with	20,000	0.459	#VALUE!	#VALUE!	#VALUE!						
a 0 or less \$ per	r unit	25,000	0.574	#VALUE!	#VALUE!	#VALUE!						
are set to "not	used". If	30,000	30,000 0.689 #VALUE!		#VALUE!	#VALUE!						
they are still no	ot	40,000	0.918	#VALUE!	#VALUE!	#VALUE!						
calculating, refr	esh them	50,000	1.148	#VALUE!	#VALUE!	#VALUE!						
by double clicki	ing them	60,000	1.377	#VALUE!	#VALUE!	#VALUE!						
and pressing "e	nter".	87,120	2.000	#VALUE!	#VALUE!	#VALUE!						
		130,680	3.000	#VALUE!	#VALUE!	#VALUE!						
		174,240	4.000	#VALUE!	#VALUE!	#VALUE!						
		217,800	5.000	#VALUE!	#VALUE!	#VALUE!						
		435,600	10.000	#VALUE!	#VALUE!	#VALUE!						
	653,400	15.000	#VALUE!	#VALUE!	#VALUE!							
	871,200	20.000	#VALUE!	#VALUE!	#VALUE!							
		1,089,000	25.000	#VALUE!	#VALUE!	#VALUE!						

This slope

₽ The Grey fields below can be edited to adjust acreage ranges. Enter acreage

Acre R	anges			Abst				
Low	High	# of Sales	COD	Median \$/SF	# of Sales	COD		
0.00	0.99	1	0.00%	\$0.00	\$0.00	10	0.00%	
1.00	1.99	0	0.00%	\$0.00	\$0.00	0	0.00%	
2.00	4.99	0	0.00%	\$0.00	\$0.00	0	0.00%	
5.00	9.99	0	0.00%	\$0.00	\$0.00	0	0.00%	
10.00	10000.00	0	0.00%	\$0.00	\$0.00	0	0.00%	
0.00	10000.00	1	0.00%	\$0.00	\$0.00	10	0.00%	

If y	ou're using the	Acreage Table
SqFt	Acres	\$/sf
43,560	1.0	#VALUE!
65,340	1.5	#VALUE!
87,120	2.0	#VALUE!
108,900	2.5	#VALUE!
130,680	3.0	#VALUE!
174,240	4.0	#VALUE!
217,800	5.0	#VALUE!
304,920	7.0	#VALUE!
435,600	10.0	#VALUE!
653,400	15.0	#VALUE!
871,200	20.0	#VALUE!
1,089,000	25.0	#VALUE!
1,306,800	30.0	#VALUE!
1,742,400	40.0	#VALUE!
2,178,000	50.0	#VALUE!
4,356,000	100.0	#VALUE!

should not be downward facing. A person wouldn't pay less for 5,000 sf than they would for 2,500 sf.

es to two decimal places.

raction			A	llocation	All Met			
Mean \$/SF	Median \$/SF	# of Sales	COD	Mean \$/SF	Median \$/SF	# of Sales	COD	
\$4.26	\$5.07	10	0.00%	\$0.00	\$0.00	21	0.00%	
\$0.00	\$0.00	0	0.00%	\$0.00	\$0.00	0	0.00%	
\$0.00	\$0.00	0	0.00%	\$0.00	\$0.00	0	0.00%	
\$0.00	\$0.00	0	0.00%	\$0.00	\$0.00	0	0.00%	
\$0.00	\$0.00	0	0.00%	\$0.00	\$0.00	0	0.00%	
\$4.26	\$5.07	10	0.00%	\$0.00	\$0.00	21	0.00%	

in Assessing.	net
\$/ac	Concluded \$
#VALUE!	#VALUE!

:hods	
Mean \$/SF	Median \$/SF
\$4.26	\$5.07
\$0.00	\$0.00
\$0.00	\$0.00
\$0.00	\$0.00
\$0.00	\$0.00
\$4.26	\$5.07

Used Sales

Out Year Start: 4/1/2021 Out Year End: 3/31/2022 In Year Start: 4/1/2022 In Year End: 3/31/2023

,,,												Land	Indicated	Resid	Resid	Unadjust	Unadjust	Months To	Time	Adjusted	Adjust \$	Adjust \$	Adjust \$		
Valuation Method	Parcel Number	Address	Sale Date	Sale Price	Conf.	Liber/ Page	Total Acre	Total Sq Ft	Total Front Ft	ROW (Sq Ft)	Imprvmts Value	Residual	LB Ratio	Acre	Sq Ft	\$ / acre	\$ / Sq Ft	Mid-Point	Adjust	Sale Price	Per Acre	Per Sq Ft	Per Front Ft	Other Parcels in Sale	Comments
Abstraction	78-0340-0007-01-9	9 379 N MAIN	5/27/2022	\$86,600			0.080	3,485	100	0	6076	2 \$25,838	0.2984	0.080	3,485	\$322,975	\$7.41	10	0.00%	\$25,838	\$322,975	\$7.41	\$258.38		
Allocation	78-0340-0007-01-9	9 379 N MAIN	5/27/2022	\$86,600			0.080	3,485	100	0	6076	2 #DIV/0!	#DIV/0!	0.080	3,485			10	0.00%						
Abstraction	78-0340-0007-01-9	9 379 N MAIN	5/27/2022	\$86,600			0.084	3,659	100	0	5990	7 \$25,838	0.2984	0.080	3,485	\$322,975	\$7.41	10	0.00%	\$25,838	\$322,975	\$7.41	\$258.38		
Allocation	78-0340-0007-01-9	9 379 N MAIN	5/27/2022	\$86,600			0.084	3,659	100	0	5990	7 #DIV/0!	#DIV/0!	0.080	3,485			10	0.00%						
Abstraction	71-1120-0041-00-	1 1125 WAYNE ST, NILES	10/31/2022	\$125,000			0.173	7,536	100	0	10447	\$20,527	0.1642	0.173	7,536	\$118,653	\$2.72	5	0.00%	\$20,527	\$118,653	\$2.72	\$205.27		
Allocation		1 1125 WAYNE ST, NILES	10/31/2022				0.173	7,536	100	0	10447		#DIV/0!	0.173	7,536			5	0.00%						
Abstraction	78-0340-0028-01-6	6 404 N MAIN	4/6/2023	\$95,000			0.170	7,405	100	0	9863	-\$3,635	-0.0383	0.170	7,405	-\$21,382	-\$0.49	0	0.00%	-\$3,635	-\$21,382	-\$0.49	-\$36.35		
Allocation	78-0340-0028-01-6	6 404 N MAIN	4/6/2023	\$95,000			0.170	7,405	100	0	9863	5 #DIV/0!	#DIV/0!	0.170	7,405			0	0.00%						
Abstraction								0	100	0		\$0	#DIV/0!	0.000	0			1479							
Allocation								0	100	0		#DIV/0!	#DIV/0!	0.000	0			1479							
Abstraction								0	100	0		\$0	#DIV/0!	0.000	0			1479							
Allocation								0	100	0		#DIV/0!	#DIV/0!	0.000	0			1479							
Abstraction								0	100	0		\$0	#DIV/0!	0.000	0			1479							
Allocation								0	100	0		#DIV/0!	#DIV/0!	0.000	0			1479							
Abstraction								0	100	0		\$0	#DIV/0!	0.000	0			1479							
Allocation								0	100	0		#DIV/0!	#DIV/0!	0.000	0			1479							
Abstraction								0	100	0		\$0	#DIV/0!	0.000	0			1479							
Allocation								0	100	0		#DIV/0!	#DIV/0!	0.000	0			1479							
Abstraction								0	100	0		\$0	#DIV/0!	0.000	0			1479							
Allocation								0	100	0		#DIV/0!	#DIV/0!	0.000	0			1479							
Vacant								0	100	0		\$0	N/A	0.000	0			1479							

Dates for sales period
Out Year Start: 4/1/2017

Land Value Analysis

Not Used Sales

Exclusion Unadjust Unadjust Months To Time Adjusted Adjust \$ Adjus