

# A Chip Off the Sales Comparison Approach

A fundamental look of the commercial sales verification process and comparative analysis application

- ▶ Confirming the Sale Every Sale Tells a Story
- Sales are verified to determine the **Market Value** of the **Real Property** that transacted.
- Compare each sale to the definition of Market Value and then determine if the sale and surrounding factors meet the statutory definition.



§ **272.03** DEFINITIONS.

Subdivision 1.**Real property**.

(a) For the purposes of taxation, but not for chapter 297A, "real property" includes the land itself, rails, ties, and other track materials annexed to the land, and all buildings, structures, and improvements or other fixtures on it, bridges of bridge companies, and all rights and privileges belonging or appertaining to the land, and all mines, iron ore and taconite minerals not otherwise exempt, quarries, fossils, and trees on or under it.



• (b) A building or structure shall include the building or structure itself, together with all improvements or fixtures annexed to the building or structure, which are integrated with and of permanent benefit to the building or structure, regardless of the present use of the building, and which cannot be removed without substantial damage to itself or to the building or structure. (etal)



§ 272.03 Subdivision 8. Market value.

"Market value" means the usual selling price at the place where the property to which the term is applied shall be at the time of assessment; being the price which could be obtained at a private sale or an auction sale, if it is determined by the assessor that the price from the auction sale represents an arm's-length transaction. The price obtained at a forced sale shall not be considered.



## Qualified Sales

- Set the benchmarks from which we set and defend our assessment.
- Provide the data for sales ratio criteria.
- Used for Local Government Aids.
- Used by the public and professionals some of which include owners or their representative seeking relief.



- **Some of the verification is clerical in nature.**
- Verifying all of the information originally completed by the submitter.
- Completing the fields not originally completed by the submitter such as: year built and gross building area.
- Are your records reflective of the conditions of the subject as of the date of sale? E.g. Condition, Occupancy.
- Do Deed Restrictions exist which prohibit the Buyer from utilizing the property to it's highest and best use?
- Are there any cellular towers/antenna's or billboards located on the property?
- Are there any franchise tenants occupying the leased space?
- Is it owner-occupied, single tenant? Or is it leased, single or multitenant?



- Was the property listed "for sale or for lease" on the open market? If so, save a copy of the listing and include it in your file. This factual market data can be utilized when asked what market data you did consider when establishing your assessment on both the subject and other similar properties within your local market.
- If you are unable to find a listing, remember to ask how the buyer learned that the property was for sale during the telephone interview.
- Complete a Commercial Data Sheet or Field Report prior to the telephone interview. This helps you familiarize yourself with the subject and allows you opportunities to inquire with any additional questions you have regarding the subject.



- Your office should have a commercial sales verification questionnaire.
- Modifications may need to be made based on the property type transacting such as a Hotel or Mini-Storage/Mini-Warehouse/Self-Storage facility.
- Contact both the Buyer and Seller to confirm the purchase information.
- Document the date contacted and who you verified the sale information with and their Title/Position.
- Dobtain their e-mail address or further contact information, follow up the telephone call with a "thank you for verifying the terms of the sale with me today" e-mail and retain for your







#### Sales Verification Questionnaire

	Parcel Identification Number(s)		
	Auditor ID (CRV) eCRV #		
	Verified By Date contacted		
	Verified with: Buyer Seller Name		
	Confirm Purchase Information: Date of Sale Purchase Price		
	Terms: Cash CFD New Financing Personal Property Value		
1)	How was the property <b>marketed</b> (auction, real estate agent, displayed For Sale by Owner sign, internet, etc.) and length of time on the market?		
	What was the property's original listing price? Any price reductions?		
	If the property was not listed by a real estate agent use tests 1, 2, & 3		
	<b>Test 1:</b> Was the sale exposed to the open market, announced or promoted through realtor listings, auction, newspapers, publications, brochures, craigslist, or for sale by owner?		
	Yes or No (if no, go to test 2)		
	<b>Test 2</b> : Was an <b>appraisal done</b> prior to the sale to establish the sale price or used as a starting point for negotiations?		
	Yes or No If no, how did you arrive at a purchase price?(if no, go to test 3)		
	<b>Test 3:</b> Did the sale involve a willing and informed Buyer and Seller under no duress to buy or sell and is the sale typical of the market? <b>Arm's-Length?</b>		
	Yes or No		
	If you answered yes to any of these three tests, the sale is most likely open market.		
2)	Was there an appraisal made on the property in the last three years? Would you be willing to share the property value indicated in the appraisal and purpose of the appraisal?		
3)	Was the seller/buyer a friend or relative? Have you had any other prior business relationship with the seller/buyer?		
4)	How much time elapsed between the date of the purchase agreement and the closing date?		
5)	Are there circumstances known to you which would have caused the seller to sell (or the buyer to buy		
	at a price below or above the <b>fair market price</b> ? (i.e. short sale, pre-foreclosure, relative sale, cancellation of a previous sale, an estate sale)		
6)	Any <b>recent changes</b> to the property that affected the sales price?		
	Condition of property? Improvements Needed		
	Recent Remodel? Were funds of repairs (replace flooring, roofing, siding, windows, remodeling, etc.) included in the purchase price? What was the value/cost of these items?		



- 1) Was the property rented or leased at the time of sale? (How long and for how much? Did this impact the sale price? Did this include an option to buy? If so, was the option to buy simply the first right of refusal or was a price established at the beginning of the lease?)
- 2) Is there a leaseback agreement between buyer/seller? (How long and for how much? Did this impact the sale price?)
- 3) What influenced you to buy this particular property rather than another? Did you consider any other properties before deciding to purchase this one? Would you be willing to share that information?
- 4) Have there been any changes in the property since you bought (sold) it? Are you planning any future changes to the property?
- 5) Would you please confirm **the planned use** of the property: Residential Seasonal Rec

Sale good for study? Yes or No Reject# Comments:	Agricultural	Commercial/muustrial	Other.	
, ,				
Comments:	Sale good for study?	Yes or No Reject#	#	
connectes.	Comments			
	comments.			

Additional income producing properties and agricultural sales questions:

- If this was an income producing property was a 1031 exchange involved? If yes, answer the following:
  - a. Were there other similar properties for sale at the same time?
  - b. Did the 1031 influence the purchase price?
  - c. Was there an extension for the 1031?
- 2) If this was an income producing property were there additional sources of income to the business such as Bar/Restaurant/Billboards etc.?
- 3) What is the **gross** potential income at the time of sale?
- 4) What is the **vacancy** and credit loss at the time of sale?
- 5) What are the operating **expenses** at the time of sale?
- 6) What is the **net operating income** at the time of sale?
- 7) Are there any tenants **on long term leases**? When are these leases set to renew?



#### Additional Questions for Apartments:

- 1. Did the sale price include an existing business? If Yes, What is the value of the business and how was it determined?
- 2. Was the purchase price based on the properties net operating income? Existing Revenue

Existing Expenses NET INCOME Cap Rate (mult)

3. Rental Income:

Unit Size (sq. ft.)	Type of unit	# units	Monthly Rent

- 4. Indicated Vacancy at time of sale:
- 5. Who are you major competitors:

#### Additional Questions for Hotel/Motel:

- 1. Did the sale price include an existing franchise/business?
  - a. If Yes, What is the value of the business and how was it determined?
  - b. What franchise was purchased?
  - c. Age of the FF&E \_\_\_\_ How often replaced\_ RCN
- 2. Was the purchase price based on the properties net operating income?
  - Existing Revenue
  - b. Existing Expenses \_\_ c. NET INCOME
  - d. Cap Rate (mult) \_\_\_
- 3. Number of rooms available:
- 4. Room Types:
  - a. Number of Single
  - b. Number of Double
  - c. Number of Queen
  - d. Number of King
  - e. Number of Suites
- 5. Prior Year Average Daily Rate
- 6. Year to date Average Daily Rate ADR
- 7. Forecast Year End Average Daily Rate
- 8. Total number of Occupied Room Nights
- 9. Occupancy
- 10. Who are you major competitors:



	Commercial Property Sale	
	Field Report	
* County	* Municipality	
* Property Id	* Multiple PID	
	Auditor Id	
* Address	Audior id	
* Information Source	* Use as Comparable	
* Buyer Name	Interest Purchased	
* Seller Name	Map Code	
* Sale Date	* Towle Market Sector	
* Total Price	Project Name	
* Down Payment Amount	* Total Land Area	
* Personal Property Amount	Usable Land Area	
Other Terms	* Land Area Definition	
* CE Sale Price	Topography	
* Spl Assmnts Paid by Buyer	Zoning _	
* Spl Assessment Verified	Site Utilities	
* Deed Type	* Railroad Access	
* Assessment Year	* Use Code	
* Land EMV	Submitted By	
^ Building E.M.V	Submitted Date	
* Include in Ratio Study	Phone Number	
Verified With	* Sale Exclusion	
Verified Date	Community	
Verified By	Neighborhood	
* Contact Phone Number	Cash Equivalency Adj	
* Contact Phone Number	- Rejection Code	
	Environmental Concerns	
* Ratio Study Comments		ll l
Summary Comments		
Additional Comments		
Pinancing 1	Pinancina 2	
Financing 1:	Financing 2: Assumption	
	Finance Type	
Mortgage CD Amount	Monthly Payment	
Interest Pate	Interest Rate	
Number of Payments	Number of Perments	
	Number of Payments	





#### Commercial Property Sale

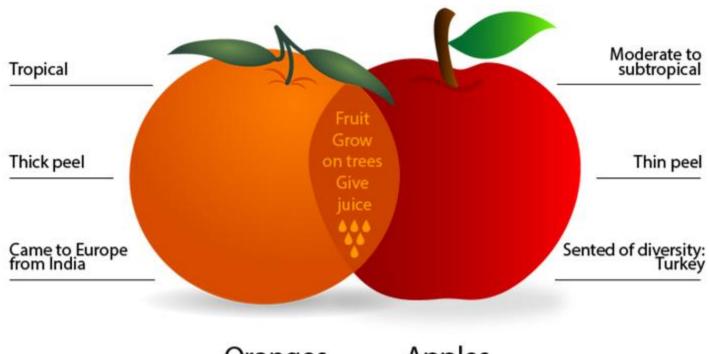


Field Report

* Excess Land	Potential Gross Income (PGI)	
<ul> <li>Physical Condition</li> </ul>	Actual Proj. Estimate (PGI)	
Market Segment	Income Year	
Year Built	Vacancy Amt	
* Effective Year Built	Vacancy Pct	
Number of Buildings	Actual Proj. Estimate (Vacancy)	
* Primary Exterior Type	Other Income Amt	
Secondary Exterior Type	Other Income Pct	
* Roof Type	Actual Proj. Estimate (Other)	
Roof Cover	Expenses Amt	
* Primary Heating Type	Expenses Pct	
Secondary Heating Type	Actual Proj. Estimate (Expenses)	
* Primary Heating Pct	Reserves Amt	
Secondary Heating Pct	Reserves Pct	
First Floor Area	Actual Proj. Estimate (Reserves)	
<ul> <li>Gross Building Area</li> </ul>		
Total Basement Area		
Basement Use		
Basement Finished SF	Construction Class	
Sprinklers Percentage	(Up to 7)	1
Number of Elevators		
Avg Story Height		
Number of Stories		
Surface Parking Spaces		
Surface Parking Type		
Other Amenities	Construction Quality	
Perimeter Shane	(Up to 6)	
Perimeter Shape .	(of mo)	1
Perimeter .		1 1
Total Floor Area	Avg Finished Ceiling Height	
NRA/GLA	Garage Spaces	
Mezzanine Use	Ramp Spaces	
Mezzanine SF	Multiple Tenancy	
Total Units	Rent Schedule	
1st Floor Use		
2nd+ Floor Use		
Second Floor Area		
Total Office SF	Net Operating Income	
Air Conditioner Pct		
Avg Clear Height		
are orea mergin		



- You've completed your sales verification questionnaire and improved property data form.
- Are confident that your due diligence is representative of a qualified sale for the MN State Sales Ratio Studies.
- If in the future, you discover additional information that may disqualify the sale from being used, be sure to document the additional information and contact your State Sale Representative to inform them of the new information.
- You should feel confident that you have completed the necessary research to qualify the sale to be used by everyone.



Oranges Apples

Elements of comparison are the characteristics of properties and transactions that help explain the variances in the prices paid for real property. The appraiser determines the elements of comparison for a given appraisal through market research and supports those conclusions with market evidence. When properly identified, the elements of comparison describe the factors that are associated with the prices paid for competing properties. The market data, if analyzed properly, will identify the elements of comparison within the comparable sales that are market-sensitive.



- The basic elements of comparison that should be considered in sales comparison analysis are as follows:
- Real property rights conveyed fee simple estate, leased fee interest, leasehold interest
- Financing terms (i.e. cash equivalency) all cash, market financing, seller-financing, special or atypical terms
- Conditions of sale (i.e. motivation) short sale, bank-owned real estate (REO)
- Expenditures made immediately after purchase new roof renovation costs
- Market conditions changes in supply and demand

- Location corner lot, interior lot, access from main artery, heavily trafficked, proximity to amenities which complement the subject's property type
- Physical characteristics size, soils, access, construction quality, condition
- Economic characteristics expense ratios, lease provisions, management, tenant mix
- Legal characteristics zoning, environment regulations, building codes, flood zones
- Non-realty components of value personal property, furniture, fixtures, and equipment (FF&E), franchises, trademarks



The sequence in which adjustments are applied to the comparable sales is determined by the market data and the appraiser's analysis of that data. As mentioned earlier, the first five elements of comparison in the list are considered transactional adjustments, while the latter five are considered property adjustments. The transactional adjustments are generally applied in the order listed. The property adjustments are usually applied after the transactional adjustments but in no particular order.



- ▶ The five categories of property adjustments location, physical characteristics, economic characteristics, legal characteristics, and non-realty components correspond to the criteria of highest and best use.
  - Physical possibly location and physical characteristics
  - Legal permissibility legal characteristics such as zoning
  - Financial feasibility economic characteristics and non-realty components that influence the value of the real property.

- Transactional and Property Adjustments:
- Real Property rights conveyed
- Financing terms
- Conditions of sale
- Expenditures made immediately after purchase
- Market Conditions
- Location
- Physical Characteristics
- Economic Characteristics
- Legal Characteristics
- Non-realty components of value



▶ Transactional adjustments apply to components 1-5. Property adjustments apply to components 6-10. This is not the only order in which quantitative adjustments can be made. Adjustments may be applied in other sequences if the market and the appraiser's analysis of the data so indicate. Using the adjustment sequence, the appraiser applies successive adjustments to the prices of comparable properties. Most property types are adjusted on a unit price basis. Property adjustments for location, physical characteristics, economic characteristics, legal characteristics, and non-realty components are typically applied to a unit price.



# Reconciling Value Indications in the Sales Comparison Approach

- Reconciliation is necessary in nearly all sales analyses because the appraiser will usually analyze many sales that may lead to several different conclusions. These value indications are resolved into a range of value or a single value indication (i.e. a point estimate). It is important that the appraiser consider the strengths and weaknesses of each comparable sale, examining the reliability and appropriateness of the market data compiled and the analytical techniques applied in the comparative analysis. The appraisal report should clearly communicate how the appraiser arrived at the value indication using the sales comparison approach:
  - What does the data show and how did the appraiser come to the value conclusion?
  - What data was good, bad, missing, and so on?
  - How and why did the appraiser come to the conclusion in the sales comparison approach?

# Reconciling Value Indications in the Sales Comparison Approach

- Even when adjustments are supported by comparable data, the adjustment process and the indicated values should reflect judgment. Small inaccuracies can be compounded when several adjustments are added or multiplied, and thus seemingly precise arithmetic conclusions derived from adjusted data might contradict the appraiser's judgment.
- The sales comparison approach is not formulaic. It does not lend itself to detailed mathematical precision. Rather, it is based on judgment and experience as much as quantitative analysis.

#### **Reconciliation Checklist**

- In the reconciliation process, the appraiser often asks several questions about the data and techniques used in the sales comparison approach such as, but not limited to, the following:
  - Is the comparable property similar in terms of physical characteristics and location?
  - Does the comparable property have the same highest and best use?
  - Was it developed, rented, or sold in the same market as the subject property?
  - Are the characteristics of the transaction similar to those expected for the subject property?
  - Would a potential buyer of the subject property consider the comparable property as a reasonable alternative to the subject property?
  - Is one method preferred over another given the data available for each analysis?



#### **Reconciliation Checklist**

- In some cases, the appraiser may ask additional questions:
  - Are the expenses of the comparable properties' appropriate indicators of the expenses of the appraised property?
  - Are the estimates of depreciation in the appraised improvements justified?

# **Units of Comparison and Real Property Interests in the Reconciliation Process**

▶ Two related points should be stressed in any discussion of the reconciliation process. In arriving at a final value indication in the sales comparison approach, the appraiser must ensure that the value concluded is consistent with the value indications derived from the other approaches to value. This is especially important in regard to the date of an opinion of prospective value.

# **Units of Comparison and Real Property Interests in the Reconciliation Process**

The appraiser must also consider any differences in the property rights appraised between the comparable properties and the subject because the comparable sales may include the transfer of a leased fee interest. If the data is not properly analyzed in the sales comparison approach, the value indication concluded for the leased fee interest in the subject property upon the achievement of stabilized occupancy might be lower or higher than the value for the fee simple estate.



 Comparative Analysis: The process by which a value indication is derived in the sales comparison approach.
 Comparative analysis may employ quantitative or qualitative techniques, either separately or in combination.

Comparative analysis is the general term used to identify the process in the sales comparison approach in which quantitative and qualitative techniques are applied to comparable sales data to derive a value indication. An appraiser may use both quantitative adjustments and qualitative analysis in comparative analysis.

▶ The process of researching and applying adjustments involves a thorough analysis of the comparable sales to identify the elements of comparison that affect the value of the type of property being appraised. Quantitative adjustments derived in comparative analysis and applied to the sale prices of the comparable properties may be expressed in numerical amounts (e.g., dollars, percentages). The conclusions of qualitative analysis may be described in terms that clearly convey the relative difference between the comparable property and the subject in regard to each element of comparison (e.g., inferior, superior, similar). The evidence that supports a numerical adjustment and the source of all value conclusions must be readily understood by the intended users of the appraisal report.



when quantitative differences cannot be identified for a specific element of comparison, qualitative analysis is used to determine which comparable sales are inferior, similar, or superior to the subject property for the elements of comparison. The adjusted prices of the inferior and superior groups bracket the value of the subject and indicate a probable range of values. The appraiser concludes a single value indication for the subject property from this range of values.

In applying quantitative adjustments, qualitative analysis, or both, appraisers must ensure that their reasoning is clear and adequately explained in the appraisal report. The extent of narrative explanation required also depends on the complexity of the property being appraised. The more complex the property, the more factors that must be considered in the analysis and then explained to intended users of the appraisal.

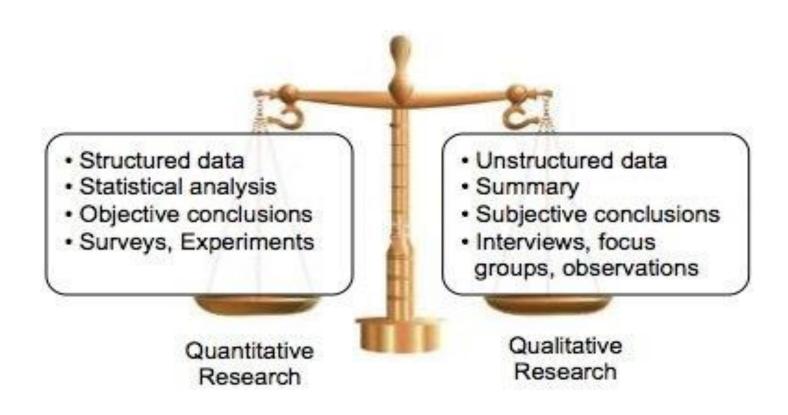
# **Quantitative Adjustments**

## Qualitative vs. Quantitative

Quantitative Qualitative ~Data that is non-numerical ~Data that is numerical ~Way of ~Can be words, diagrams, ~Can be based off of ~Can change based on the ~Same wherever you are, including space amount of gravity ~Can be 0 if in a place like space ~Can never be 0, since that would mean it would not exist ~SI unit of measurement is ~SI unit of measurement is Kilograms Newtons



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- Several techniques are available to quantify adjustments to the sale prices of comparable properties:
  - Data analysis techniques such as paired data analysis, grouped data analysis, and secondary data analysis
  - Statistical analysis, including graphic analysis and scenario analysis
  - Cost-related adjustments (cost to cure, depreciated cost)
  - Capitalization of income differences

#### Data Analysis Techniques

- Paired data analysis is based on the premise that when two
  properties are equivalent in all respects but one, the value of
  the single difference can be measured by the difference in
  price between the two properties
- Paired data analysis should be developed with extreme care to ensure that the properties are truly comparable and that other differences do not exist, such as improvements made subsequent to the sale or additional approvals that had to be obtained.

- Additional methods of quantitative analysis include:
- Statistical Analysis
- Graphic Analysis
- Cost Analysis/Cost-Related Adjustments
- Capitalization of Income Differences



#### **Qualitative Analysis**

- Qualitative analysis recognizes the inefficiencies of real estate markets and the difficulty of expressing adjustments with mathematical precision. It is essential; therefore, the appraiser explain the analytical process and logic applied in reconciling value indications using qualitative analysis techniques such as
- Trend analysis
- Relative comparison analysis
- Ranking analysis

#### **Qualitative Analysis**

Statistical analysis and graphic analysis may serve as qualitative techniques when the results of those analyses do not support a precise adjustment amount but do support a qualitative conclusion about value trends. Likewise, when trend analysis yields enough evidence to support a precise adjustment amount, the technique could be considered a quantitative adjustment technique. The nature of the data analyzed with the various statistical techniques will dictate how the results of the analysis can be used, either as an adjustment or as a qualitative indicator.



#### **Qualitative Analysis**

- Additional qualitative analysis include:
- Trend Analysis
- Relative Comparison Analysis
- Ranking Analysis
- Elements of Comparison
- Transactional Adjustments
- Property Adjustments



# Appraisal Institute – The 14<sup>th</sup> Edition of the Appraisal of Real Estate

Qualitative Analysis Vs. Quantitative Analysis

What's the Difference?



Qualitative Adjustments are purely relative (inferior, similar and superior).

Quantitative adjustments are specific numbers (% or dollar amounts).



What does the Appraisal Institute say about qualitative analysis?

The following information is paraphrased from The 14<sup>th</sup> Ed. Of the Appraisal of Real Estate, published by the Appraisal Institute



- Qualitative analysis recognizes the inefficiencies of real estate markets and the difficulty in expressing adjustments with mathematical precision. It is essential therefore, that the appraiser explains the analytical process and logic applied in reconciling the value indications using qualitative analysis techniques such as:
- Trend analysis
- Relative comparison analysis
- Ranking analysis

Relative comparison analysis is the study of relationships indicated by market data without recourse to quantification. Many appraisers use this technique because it reflects the imperfect nature of real estate markets.



Properties that are superior and inferior to it... The appraiser must search the market diligently to obtain and analyze sufficient pertinent data to bracket the value of the subject."

# What does the Appraisal Institute say about quantitative analysis?



- Several techniques are available to quantify adjustments to the sale prices of comparable properties:
  - Paired sales or grouped data analysis
  - Statistical analysis
  - Co-related adjustments (cost to cure, depreciated cost)
  - Capitalization of income differences

Appraisers can usually find some logic to support most quantitative adjustments given the number of tools available to them.



Most quantitative adjustments appraisers make are simply qualitative adjustments presented as percentages. They are not directly supported by market data.

We should quantify adjustments based on market data whenever possible.



No difference exists in terms of research or valuation between qualitative and quantitative analysis.

The two techniques simply represent two forms of presentation.

As appraisers, we should select the presentation style that best communicates our analysis without being misleading. The best technique may be different from one data set to the next.



My informal survey results also clearly highlight that qualitative analysis is a relatively common and accepted technique.



- My position on the topic?
- ▶ No right or wrong answer.

Historically, I've used qualitative analysis with fair or poor data sets. If I have sufficient data to quantify an adjustment, use it and explain your analysis. As appraisers, we should select the presentation style and accompanying narrative which best communicates our analysis without being misleading.



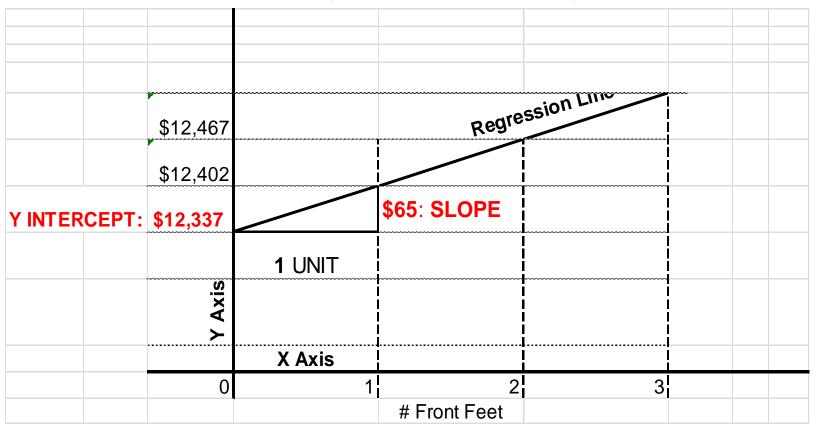
Above all, the appraiser must be careful to ensure that the adjustments made to the comparable sales reflect the reactions of market participants.

# LINEAR REGRESSION

- IS BASICALLY THE SLOPE OF THE AVERAGE LINE THROUGH THE DATA SET AND ITS' Y INTERCEPT.
- THE CALCULATION IS ESSENTIALLY AN AVERAGE OF THE SQUARES OF THE X AND Y COORDINATE VALUES
- Slope =  $\Sigma xy [(\Sigma x \Sigma y)/n]$   $\Sigma x^2 - [(\Sigma x)^2/n]$ Y-Intercept = Avg.y - (Slope x Avg.x)

# REGRESSION RESULT

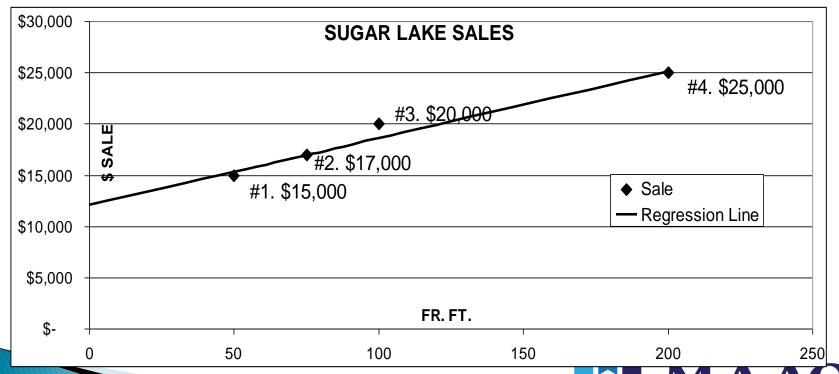
Close-up View of Graph Illustrates Concept of Slope & Y Intercept





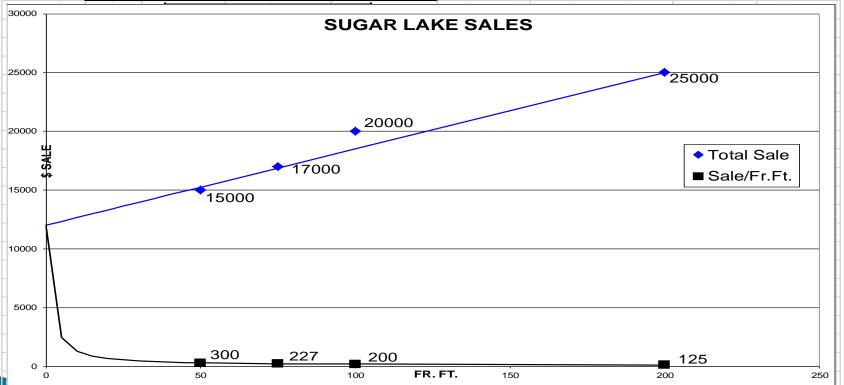
# LINEAR REGRESSION EXAMPLE

Sale #	Front Feet	Sa	ale Price	Т	rend (T)	RATIO		
	×		Y	1 -	+ (m * X)	T/Y		
1	50	\$	15,000	\$	15,590	103.9%		
2	75	\$	17,000	\$	17,217	101.3%		
3	100	\$	20,000	\$	18,843	94.2%		
4	200	\$	25,000	\$	25,349	101.4%		
LINEST (m):		\$	65		Median:	101.3%		
INTE	RCEPT (I):	\$	12,337	-	Avg. Dev.:	3.0%		

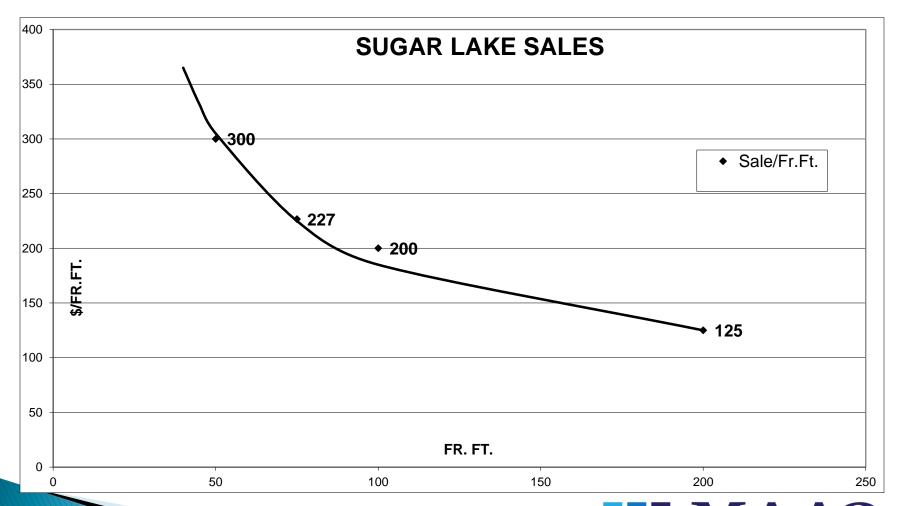


#### Linear Regression Per Unit (Fr. Ft.) Comparison

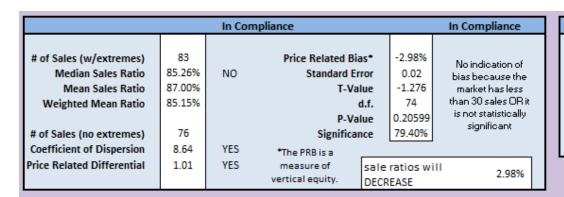
	Sale #	Front Feet	Sa	Sale Price		rend (T)	Sal	e/Fr.Ft.	Fr.	Ft. Trend (Tff)	
		×		Υ	1+	I + (m * X)		Y/X		T/X	
	1	50	\$	15,000	\$	15,590	\$	300	\$	312	
	2	75	\$	17,000	\$	17,217	\$	227	\$	230	
	3	100	\$	20,000	\$	18,843	\$	200	\$	188	
	4	200	\$	25,000	\$	25,349	\$	125	\$	127	
	LINEST (m): INTERCEPT (I):		\$	65							
			\$	12,337		_					



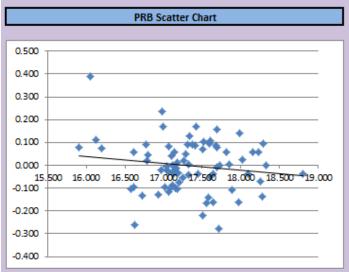
#### **CLOSE VIEW OF PER UNIT GRAPH**

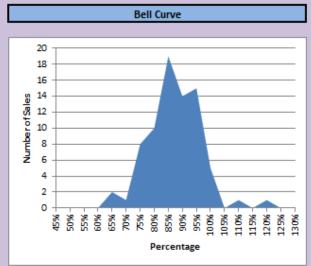


#### Uses of Linear Regression: MCAST









	Ratio	Ranges	
	<	45%	0
45%	<&>	50%	0
50%	<&>	55%	0
55%	<&>	60%	0
60%	< & >	65%	2
65%	<&>	70%	1
70%	<&>	75%	8
75%	<&>	80%	10
80%	<&>	85%	19
85%	< & >	90%	14
90%	<&>	95%	15
95%	<&>	100%	5
100%	< & >	105%	0
105%	<&>	110%	1
110%	<&>	115%	0
115%	<&>	120%	1
120%	<&>	125%	0
	<	130%	0

# Uses of Linear Regression: Neighborhood Analysis

RE	REGRESSION										
		_			Sale						
_	nd EMV	Fc	otage	Nbd	ratio						
\$	97,805		50	В	93.3%						
\$	74,962		50	С	99.1%						
\$	65,328		60	В	117.0%						
\$	105,113		60	В	91.5%						
\$	77,815		75	В	114.0%						
\$	92,708		75	В	102.8%						
\$	140,966		75	В	70.0%						
\$	97,959		80	В	101.8%						
\$	156,027		80	В	77.0%						
\$	105,265		85	В	97.9%						
\$	105,401		100	В	106.9%						
\$	60,063		100	С	111.3%						
\$	65,052		105	В	132.3%						
\$	190,840		130	В	66.8%						
\$	149,806		145	В	84.0%						
\$	90,397		150	В	118.1%						
\$	99,186		150	В	110.6%						
\$	167,841		151	В	85.0%						
•											
\$	108,612		160	В	88.8%						
\$	253,038	_	200	В	70.6%						
\$	131,069		200	В	96.7%						
\$	158,798		345	В	98.2%						
\$	97,997		375	D	97.8%						
\$	125,690		465	С	97.4%						
\$	877,627		4,190	В	97.0%						
I	NTERCEPT:	\$	90,607	Med:	97.82%						

187 COD: 12.01%

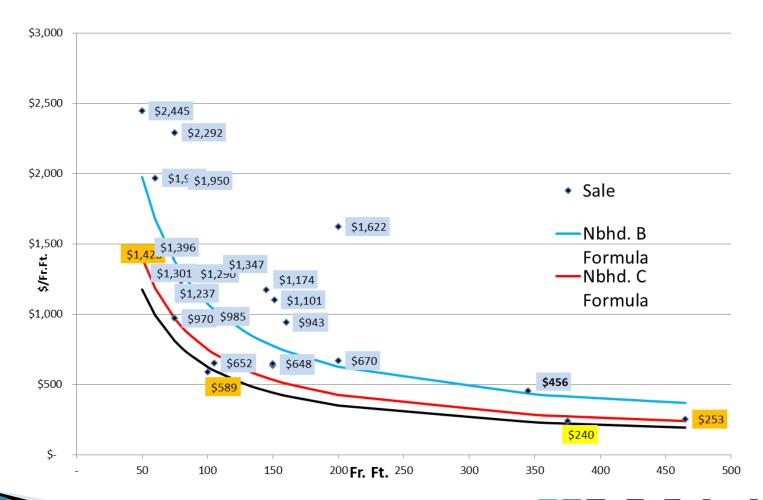
LINEST:

2014 Ratio Study									
Land EMV	Fo	otage	NBHD	Sale Ratio					
\$ 97,805	\$	50	В	93.3%					
\$ 74,962	\$	50	С	99.1%					
\$ 105,113	\$	60	В	91.5%					
\$ 77,815	\$	75	В	114.0%					
\$ 105,265	\$	85	В	97.9%					
\$ 190,840	\$	130	В	66.8%					
\$ 108,612	\$	160	В	88.8%					
\$ 158,798	\$	345	В	98.2%					
\$ 97,997	\$		D	97.8%					
\$ 125,690	\$	465	С	97.4%					
\$ 877,627	\$	4,190	В	97.0%					
INTERCEPT :	\$	81,029	Med:	97.4%					
INTERCEPT : LINEST:	\$	81,029 189	Med: COD:						
:	\$	189	COD:	7.0%					
LINEST:	\$	<b>189</b> 50	:	7.0%					
: LINEST: \$ 74,962	<b>\$</b>	50 100	COD:	7.0% 99.1% 111.3%					
: LINEST: \$ 74,962 \$ 60,063	<b>\$</b> \$	50 100 375	COD:	7.0% 99.1% 111.3% 97.8%					
: LINEST: \$ 74,962 \$ 60,063 \$ 97,997	<b>\$</b> \$ \$	50 100 375	COD: C C	<b>7.0%</b> 99.1%					
: LINEST: \$ 74,962 \$ 60,063 \$ 97,997 \$ 125,690	<b>\$</b> \$ \$	50 100 375 465	COD: C C	99.1 111.3 97.4					

LIN	IEST:		186		COD:	13.64%
	ERCEPT:	_	99,714		Med:	97.0%
\$		\$	4,190	B		97.0%
\$	158,798	\$	345	В		98.2%
\$	131,069	\$	200	В		96.7%
\$	253,038	\$	200	В		70.6%
\$	108,612	\$	160	В		88.8%
\$	167,841	\$	151	¦Β		85.0%
\$	99,186	\$	150	B		110.6%
\$	90,397	\$	150	В		118.1%
\$	149,806	\$	145	В		84.0%
\$	190,840		130	В		66.8%
\$	65,052	1	105	В		132.3%
\$	105,401	\$	100	В		106.9%
\$	105,265	\$	85	В		97.9%
\$	156,027	\$	80	B		77.0%
\$	97,959	:	80	B		101.8%
\$	140,966	:	75	B		70.0%
\$	92,708	H	75	В		102.8%
\$	77,815	<del>! -</del>	75	В		114.0%
\$	65,328 105,113	-	60	B		91.5%
\$	97,805	<del>! -</del>	60	B		117.0%
Lar \$	nd EMV	FC	ootage 50	NB B	HD	Sale Ratio 93.3%
	1.5107	_		NID	up.	0 1 0 "



# Uses of Linear Regression: Graphic Land Analysis

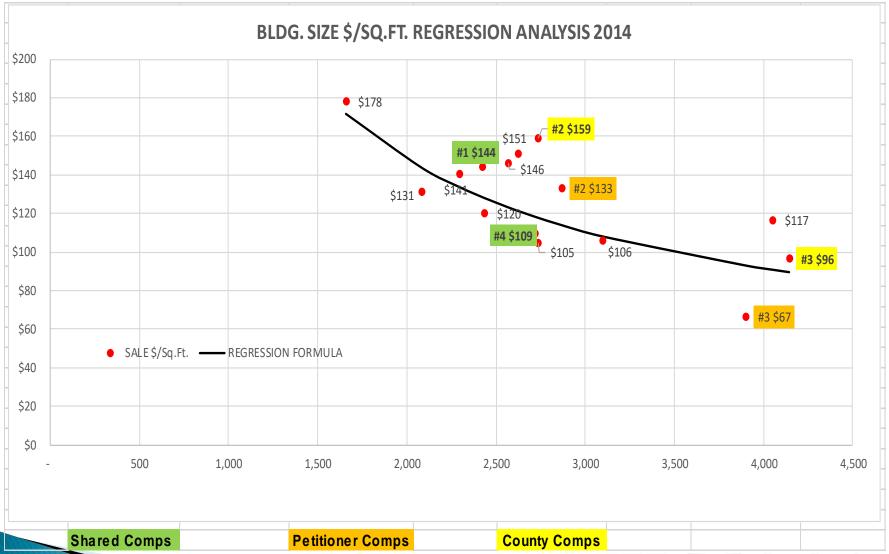


# Uses of Linear Regression: Building Size Adjustment

	BUI	LDING BASE	SQUARE F	OOT ANA	LYSIS			
					Graphic Per	Square F	oot Analysis	
BLDG S	IZE LINEAR	E LINEAR REGRESSION		SALE #	GLA Sq.Ft	SALE \$/Sq.Ft.	REGRESSION FORMULA	Ind. Bldg Value RCN
1	2,425	\$321,836		11	1,660	\$178	171.93	\$295,432
2	2,736	\$403,754		13	2,082	\$131	144.01	\$273,192
3	4,145	\$374,670		12	2,296	\$141	133.78	\$322,612
4	2,720	\$282,046		1	2,425	\$144	128.48	\$350,176
5	2,872	\$357,036		14	2,438	\$120	127.98	\$292,581
6	2,737	\$272,132		9	2,568	\$146	123.23	\$375,535
7	4,050	\$449,016		10	2,624	\$151	121.33	\$395,708
8	3,904	\$246,161		4	2,720	\$109	118.26	\$297,746
9	2,568	\$357,819		2	2,736	\$159	117.77	\$434,938
10	2,624	\$376,532		6	2,737	\$105	117.73	\$287,193
11	1,660	\$282,108		5	2,872	\$133	113.81	\$382,532
12	2,296	\$306,975		15	3,100	\$106	107.95	\$328,432
13	2,082	\$257,814		8	3,904	\$67	92.76	\$259,649
14	2,438	\$276,855		7	4,050	\$117	90.65	\$471,984
15	3,100	\$313,364		3	4,145	\$96	89.36	\$399,850
	\$228,633	\$34	GLA Size Adj.	Ind. Sub	ject Bldg. EMV :	\$365,024	91.83	
	Intercept	Slope		Ind. Sub	ject Total EMV :	\$513,200		



### Uses of Linear Regression: Appraisal Analysis

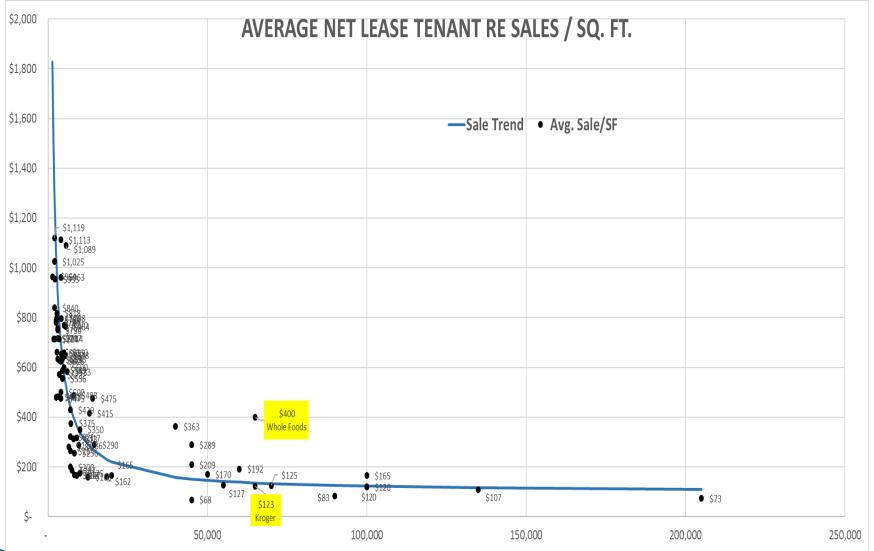


### SINGLE TENENT NET LEASE a \$1.25 Trillion Sample

2019 AVAILABL	E NET LEA	SE TEN	IENT PR	OFILES													
	Ownership			#	A - Colo	DE Calana Esta ENV	Sale	Avg.		Ownersh		Avg. Bldg Size	#	A se Cala	DE Colonia Esta FAMA	Sale	Avg.
Tenent	Туре	Rating	sq.ft.	Locations	7	RE Sale or Est. EMV	Trend	Sale/SF	Tenent	ip Type	Rating	1	Locations		RE Sale or Est. EMV	Trend	Sale/SF
Sonic	Private	ļ	1,400	3,557	\$ 1,350,000	\$ 4,801,950,000	\$ 1,826	\$ 964	Wawa	Private	ļ	5,600	800	\$ 6,100,000	\$ 4,880,000,000	\$ 530	\$ 1,089
Church's Chicken	Private		1.750	1 700	\$ 1,250,000	\$ 2,125,000,000	ć 1 <u>101</u>	\$ 714	Buffalo Wild Wings	Private		6.000	1 220	\$ 3,500,000	\$ 4,333,000,000	\$ 501	\$ 583
Dunkin' Donuts	Public	<del></del>	2,000	<u> </u>	\$ 1,680,000	\$ 18,480,000,000			Auto Zone	Public	BBB	6,500	· ·	\$ 1,825,000	, ,,,	\$ 470	
Starbucks		BBB+	2,000	$\leftarrow$	\$ 2,050,000	\$ 57,846,900,000			Aaron's	Public	DDD	7,000	<del>`</del>	\$ 1,823,000	· , , , ,	\$ 444	<del></del>
Del Taco	Public	555.	2,100	<del>,                                      </del>	\$ 2,350,000	\$ 1,325,400,000			Bridgestone/Firesto		Α	7,000		\$ 3,000,000	· , , , ,	<del>'                                     </del>	
KFC	<del>}</del>	BB	2,100	-	\$ 1,500,000	\$ 31,428,000,000		<del>' ' ' '</del>	LongHorn Steakhou		BBB	7,000	• •	\$ 2,250,000	· , , , , ,	\$ 444	<del></del>
Taco Bell	<del>}</del>	BB	2,100	<del>,                                      </del>	\$ 1,500,000	\$ 10,500,000,000			O'Reilly Auto Parts	Public	BBB+	7,000	-	\$ 1,850,000	· , , , ,	<del>'                                     </del>	+
Popeyes	<del>}</del>	B+	2,200		\$ 2,100,000	\$ 5,460,000,000	\$ 1.198	\$ 955	Goodyear	Public	BB	7,200	1,000	\$ 2,700,000	. , , ,	\$ 434	
Jiffy Lube	Private		2,500	<del>, , , , , , , , , , , , , , , , , , , </del>	\$ 1,950,000	\$ 4,290,000,000			Advance Auto Parts		BBB-	7,500	4,981	\$ 1,400,000	· , , , , , , , , , , , , , , , , , , ,	<del>-</del>	<del></del>
Poolo Loco	Public		2,600	430	\$ 2,050,000	\$ 881,500,000		\$ 788	Cheddar's	Public	BBB	8.000	170	\$ 2,500,000	. , , ,	\$ 401	<del></del>
Pizza Hut	Public	ВВ	2,600		\$ 1,250,000	\$ 20,995,000,000	<del></del>		DaVita	Public	BB	8,000	2,500	\$ 3,900,000	, ,	( '	
<del></del>	1	В	2,700		\$ 2,150,000	\$ 13.975.000.000			Sherwin Williams	Public	BBB	8,200	4,620	\$ 2,100,000	· , , , , , , , , , , , , , , , , , , ,	\$ 393	
Jack in the Box	Public		2,750		\$ 2,250,000	\$ 4,950,000,000	\$ 978	\$ 818	Family Dollar	Public	BBB-	8,320	14,835	\$ 1,400,000	· · · · ·	\$ 389	\$ 168
	Private		2,800	6,400		\$ 11,840,000,000			Dollar General	Public	BBB-	9,000	15,000	\$ 1,500,000	· , , , , ,	\$ 367	_, ·
Arbv's	Private		3,000	<del>,                                      </del>	\$ 1,450,000	\$ 4,845,900,000			Olive Garden	Public	BBB	9.000	892	\$ 2,850,000	· , , , ,	<del>-</del>	<del></del>
Carl's Jr (fast food)	Private		3,000		\$ 2,275,000	\$ 3,389,750,000			NTB Tire & Service (	Ctr Private		9,600	226	\$ 2,750,000	. , , ,	<del>-</del>	<del></del>
Chipolte	Public		3,000	1	\$ 2,250,000	\$ 5,062,500,000			Dollar Tree	Public	BBB-	10,000	14,835	\$ 1,750,000	· , ,	<del>-</del>	<del></del>
Circle K (conv. Store	Public	BBB	3,000	15,000	\$ 2,150,000	\$ 32,250,000,000			Fresenius Medical C	arPublic	Baa3 Moo	10,000	2,200	\$ 3,500,000	\$ 7,700,000,000	\$ 340	\$ 350
Hardee's	Private		3,000	5,812	<del>, , , , , , , , , , , , , , , , , , , </del>	\$ 11,042,800,000			United Rentals	Public	BB	12,500		\$ 2,000,000	\$ 1,994,000,000	\$ 292	<del></del>
7 Eleven	Public	AA-	3,500	66,579	<del> </del>	\$ 166,447,500,000			CVS Pharmacy	Public	BBB	13,000	9,800	\$ 5,400,000	\$ 52,920,000,000	\$ 284	+
Burger King	Private		3,500		\$ 2,000,000	\$ 30,000,000,000		· · · ·	Walgreens	Public	BBB	14,000	<del>' ' '</del>	\$ 6,650,000		<del>-</del>	
Verizon	Public	BBB+	3,500	2,330	\$ 2,200,000	\$ 5,126,000,000	\$ 789	\$ 629	Rite Aid Pharmacy	Public	В	14,500	2,526	\$ 4,200,000	\$ 10,609,200,000	\$ 265	\$ 290
Bank of America	Public	Α-	4,000	4,600	\$ 3,850,000	\$ 17,710,000,000	\$ 703	\$ 963	Aldi	Private		18,500	10,366	\$ 3,000,000	\$ 31,098,000,000	\$ 229	\$ 162
Bojangle's	Private		4,000	600	\$ 2,500,000	\$ 1,500,000,000	\$ 703	\$ 625	Tractor Supply Co.	Public	-	20,000	1,766	\$ 3,300,000	\$ 5,827,800,000	\$ 219	\$ 165
Chase Bank	Public	A+	4,000	5,100	\$ 4,450,000	\$ 22,695,000,000	\$ 703	\$ 1,113	Carmax	Public		40,000	195	\$14,500,000	\$ 2,827,500,000	\$ 159	\$ 363
Citizens Bank	Public	Α-	4,000	1,200	\$ 2,000,000	\$ 2,400,000,000	\$ 703	\$ 500	Dick's Sporting Good	ds Public		45,000	850	\$ 9,400,000	\$ 7,990,000,000	\$ 152	2 \$ 209
McDonald's	Public	BBB+	4,000	37,241	\$ 1,900,000	\$ 70,757,900,000	\$ 703	\$ 475	Gander Outdoors	Private		45,000	69	\$ 3,050,000	\$ 210,450,000	\$ 152	2 \$ 68
Chick-Fil-A	Private		4,200	2,200	\$ 3,350,000	\$ 7,370,000,000	\$ 674	\$ 798	LA Fitness	Private		45,000	700	\$13,000,000	\$ 9,100,000,000	\$ 152	2 \$ 289
SunTrust	Public	Α-	4,200	1,400	\$ 2,750,000	\$ 3,850,000,000	\$ 674	\$ 655	Best Buy	Public	BBB	50,000	1,008	\$ 8,500,000	\$ 8,568,000,000	\$ 147	7 \$ 170
AT&T	Public	ввв	4,500	16,000	\$ 2,650,000	\$ 42,400,000,000	\$ 636	\$ 589	Hobby Lobby	Private		55,000	822	\$ 7,000,000	\$ 5,754,000,000	\$ 142	2 \$ 127
Chili's	Public	BB+	4,500	1,606	\$ 2,850,000	\$ 4,577,100,000	\$ 636	\$ 633	Albertsons (Groc.)	Private		60,000	2,300	\$11,500,000	\$ 26,450,000,000	\$ 138	\$ 192
Denny's	Public		4,500	1,700	\$ 2,500,000	\$ 4,250,000,000	\$ 636	\$ 556	Kroger	Public	BBB	65,000	3,028	\$ 8,000,000	\$ 24,224,000,000	\$ 135	\$ 123
IHOP	Public		4,500	3,716	\$ 2,500,000	\$ 9,290,000,000	\$ 636	\$ 556	Whole Foods	Public	AA-	65,000	479	\$26,000,000	\$ 12,454,000,000	\$ 135	\$ 400
Mattress Firm	Public		4,500	3,304	\$ 2,650,000	\$ 8,755,600,000	\$ 636	\$ 589	Academy Sports & C	DuPrivate		70,000	290	\$ 8,750,000	\$ 2,537,500,000	\$ 133	3 \$ 125
Applebee's	Public		5,000	1,936	\$ 3,000,000	\$ 5,808,000,000	\$ 582	\$ 600	Kohl's	Public	BBB-	90,000	1,158	\$ 7,500,000	\$ 8,685,000,000	\$ 125	\$ \$ 83
Panera Bread	Private		5,000	2,000	\$ 3,300,000	\$ 6,600,000,000	\$ 582	\$ 660	BJ's Wholesale Club	Private	В	100,000	216	\$16,500,000	\$ 3,564,000,000	\$ 122	2 \$ 165
Red Lobster	Private		5,000	705	\$ 3,850,000	\$ 2,714,250,000	\$ 582	\$ 770	FedEx	Public	BBB	100,000	1,300	\$12,000,000	\$ 15,600,000,000	\$ 122	2 \$ 120
Wells Fargo	Public	Α-	5,400	8,050	\$ 3,500,000	\$ 28,175,000,000	\$ 546	\$ 648	The Home Depot	Public	А	100,000	2,000	\$12,000,000	\$ 24,000,000,000	\$ 122	2 \$ 120
Kum & Go	Private		5,500	3,942	\$ 4,200,000	\$ 16,556,400,000	\$ 538	\$ 764	Lowe's	Public	BBB+	135,000	2,394	\$14,500,000	\$ 34,713,000,000	\$ 116	5 \$ 107
									Walmart	Public	AA-	205,000	3,568	\$15,000,000	\$ 53,520,000,000	\$ 110	) \$ 73
													451,028	\$ 4,453,544	\$ 1,256,564,000,000	Avg.Dev.	. 32.09
												li li	NTERCEPT:	\$ 2,419,445			
W. Comment													SLOPE:	\$ 98			



#### SINGLE TENENT NET LEASE a \$1.25 Trillion Sample





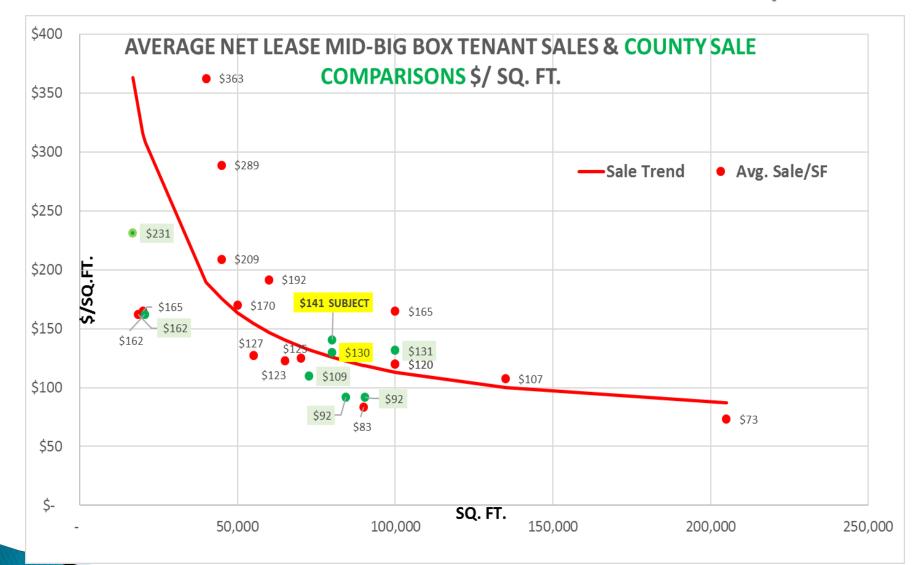
#### COURT MID-BIG BOX NET LEASE a \$264 Billion Sample

#### 2019 NET LEASE MID-BIG BOX TENENT PROFILES WITH COUNTY 2015 MARKET COMPARISONS OVERLAY

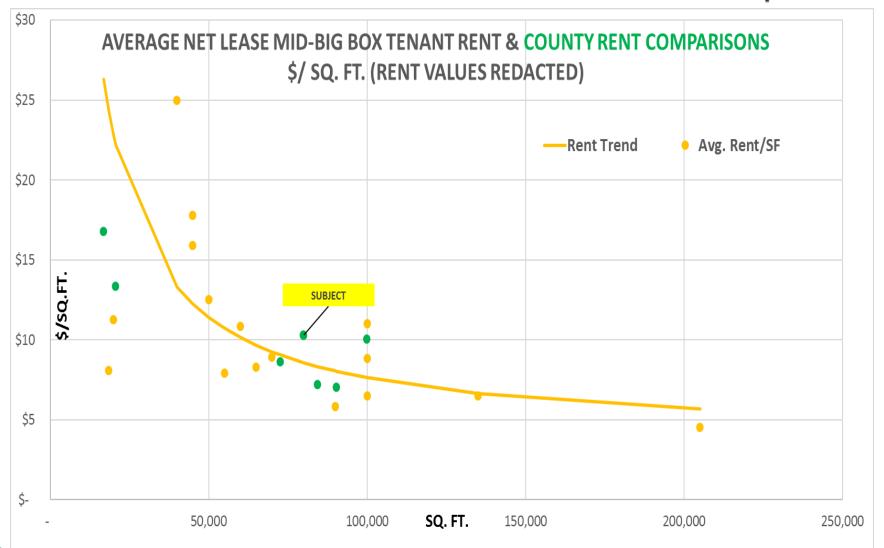
ZOIS NET LEASE WIID-L	I IVOI ILL	J WIIII CC	,	1411 2013 1417	~! `	KLI COIVII	<u> </u>	1130143	OVLILLAI			
Tenent	Ownership Type	Credit Rating	Avg. Bldg Size sq.ft.	# Locations		Leased RE EMV		Avg. Sale	1	Sale Trend	Av	g. Sale/SF
Goodwill Monticello	Sale		16,863	1	\$	3,900,000	\$	3,900,000	\$	363	\$	231
Aldi	Private	1	18,500	10,366	\$	31,098,000,000	\$	3,000,000	\$	337	\$	162
Tractor Supply Co.	Public		20,000	1,766	\$	5,827,800,000	\$	3,300,000	\$	316	\$	165
Goodwill Forest Lake	Sale Rent Ro		20,600	1	\$	3,337,000	\$	3,337,000	\$	309	\$	162
Carmax	Public		40,000	195	\$	2,827,500,000	\$	14,500,000	\$	189	\$	363
Dick's Sporting Goods	Public		45,000	850	\$	7,990,000,000	\$	9,400,000	\$	175	\$	209
LA Fitness	Private		45,000	700	\$	9,100,000,000	\$	13,000,000	\$	175	\$	289
Best Buy	Public	BBB	50,000	1,008	\$	8,568,000,000	\$	8,500,000	\$	164	\$	170
Hobby Lobby	Private		55,000	822	\$	5,754,000,000	\$	7,000,000	\$	155	\$	127
Albertsons (Groc.)	Private		60,000	2,300	\$	26,450,000,000	\$	11,500,000	\$	147	\$	192
Kroger	Public	BBB	65,000	3,028	\$	24,224,000,000	\$	8,000,000	\$	140	\$	123
Academy Sports & Outdoors	Private		70,000	290	\$	2,537,500,000	\$	8,750,000	\$	135	\$	125
Shopko Fairmont	Sale Rent Ro		72,716	1	\$	7,954,844	\$	7,954,844	\$	132	\$	109
Shopko N. Branch	Sale		80,000	1	\$	10,400,000	\$	10,400,000	\$	126	\$	130
Shopko N. Branch	Sale Rent Ro		80,000	1	\$	11,250,000	\$	11,250,000	\$	126	\$	141
Shopko Winona	Sale Rent Ro		84,375	1	\$	7,746,269	\$	7,746,269	\$	122	\$	92
Kohl's	Public	BBB-	90,000	1,158	\$	8,685,000,000	\$	7,500,000	\$	119	\$	83
Shopko St. Cloud	Rent & Ro		90,414	1	\$	8,466,667	\$	8,300,654	\$	118	\$	92
Shopko Waite Park	Rent		100,000	1	\$	13,479,295	\$	13,126,902	\$	113	\$	131
BJ's Wholesale Club	Private	В	100,000	216	\$	3,564,000,000	\$	16,500,000	\$	113	\$	165
FedEx	Public	BBB	100,000	1,300	\$	15,600,000,000	\$	12,000,000	\$	113	\$	120
The Home Depot	Public	Α	100,000	2,000	\$	24,000,000,000	\$	12,000,000	\$	113	\$	120
Lowe's	Public	BBB+	135,000	2,394	\$	34,713,000,000	\$	14,500,000	\$	100	\$	107
Walmart	Public	AA-	205,000	3,568	\$	53,520,000,000	\$	15,000,000	\$	87	\$	73
				31,969.00	\$	264,525,334,075	\$	9,602,736	Av	g. Dev.		26.6%
				INTERCEPT:	\$	5,076,201						
				SLOPE:	\$	62						



## MID - BIG BOX NET LEASE a \$264 Billion Sample



### MID - BIG BOX NET LEASE a \$264 Billion Sample

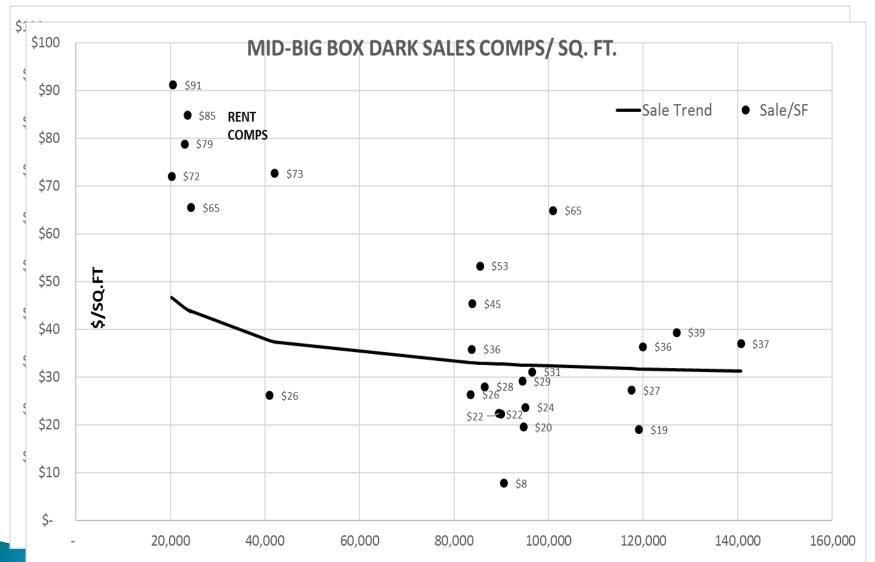


## COURT MID-BIG BOX DARK a \$61.2 Million Sample

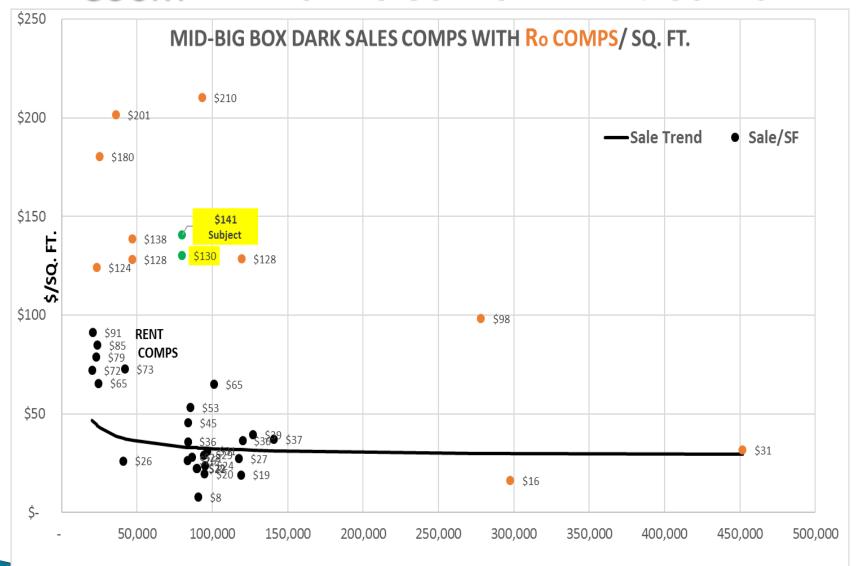
2015 NET LEASE MID-	BIG BOX DA	RK M	ARKET A	PPRAISAL	. <b>C</b>	OMPARABLE:	S				
			Avg.								
	Ownership	Credit	<b>Bldg Size</b>	#						Sale	
Tenent	Type	Rating	sq.ft.	Locations		RE EMV		Avg. Sale	T	rend	Sale/SF
3 Planet Fit Mankato	Rent	-	20,241	1	\$	1,457,527	\$	1,457,527	\$	47	\$ 72
Aldi Hutchinson (Frmr Cub)	Rent	}	20,577	1	\$	1,875,624	\$	1,875,624	\$	46	\$ 91
4 Planet Fit Westgate Ctr St.	Rent	}	23,000	1	\$	1,812,121	\$	1,812,121	\$	44	\$ 79
5 Faceway Foods Rochester	Rent	}	24,352	1	\$	1,593,952	\$	1,593,952	\$	44	\$ 65
8 Ashley Furn. Hutch	Rent	}	23,600	1	\$	2,002,424	\$	2,002,424	\$	44	\$ 85
3 Walmart Waseca	Dark Sale	}	41,000	1	\$	1,070,691	\$	1,070,691	\$	38	\$ 26
7 Econo Foods Hutch.	Rent		42,071	1	\$	3,055,103	\$	3,055,103	\$	37	\$ 73
4 Kmart Int. Falls	Dark Sale	}	83,552	1	\$	2,200,000	\$	2,200,000	\$	33	\$ 26
5 K-Mart Fergus Falls & #2I	Listing		83,776	1	\$	3,000,000	\$	3,000,000	\$	33	\$ 36
4 K-Mart Winona	Listing/Sale	}	83,876	1	\$	3,800,000	\$	3,800,000	\$	33	\$ 45
6 Home Furn. Roseville	Dark Sale		85,476	_	\$	4,550,000	\$	4,550,000	\$	33	\$ 53
9 Kmart Monticello	Dark Sale		86,479	1	\$	2,420,000	\$	2,420,000	\$	33	\$ 28
3 Target New Ulm	Listing		89,490	1	\$	2,000,000	\$	2,000,000	\$	33	\$ 22
1 Target Austin	Listing		89,908	1	\$	2,000,000	\$	2,000,000	\$	33	\$ 22
2 Walmart Little Falls	Listing		90,576	1	\$	700,000	\$	700,000	\$	33	\$ 8
1 Kmart Marshall & #1I	Dark Sale		94,688	1	\$	1,850,000	\$	1,850,000	\$	32	\$ 20
2 Kmart Dundas	Dark Sale		94,479	1	\$	2,750,000	\$	2,750,000	\$	33	\$ 29
7 Home Depot Cottage Grove	Dark Sale		95,096		\$	2,250,000	\$	2,250,000	\$	32	\$ 24
11 Kmart Austin	Dark Sale		96,534		\$	3,000,000	\$	3,000,000	\$	32	\$ 31
K-Mart Wauwatosa, WI	Rent		101,000	1	\$	6,549,697	\$	6,549,697	\$	32	\$ 65
12 Lowes Rogers	Dark Sale		117,609	1		3,200,000	\$	3,200,000	\$	32	\$ 27
8 Walmart St. Cloud	Dark Sale		119,141	1	\$	2,265,000	\$	2,265,000	\$	32	\$ 19
K-Mart Greenfield, WI	Rent		120,000		\$		\$	4,363,636	\$	32	\$ 36
10 Lowes Cambridge	Dark Sale		127,082		\$		\$	5,000,000	\$	32	\$ 39
5 Walmart Blaine	Dark Sale	}	140,684	1	\$		\$	5,200,000	\$	31	\$ 37
				20.00	\$	61,224,127	\$	3,061,206	Avg	g. Dev.:	35.1%
						INTERCEPT:	\$	364,190			
						SLOPE:	\$	29			



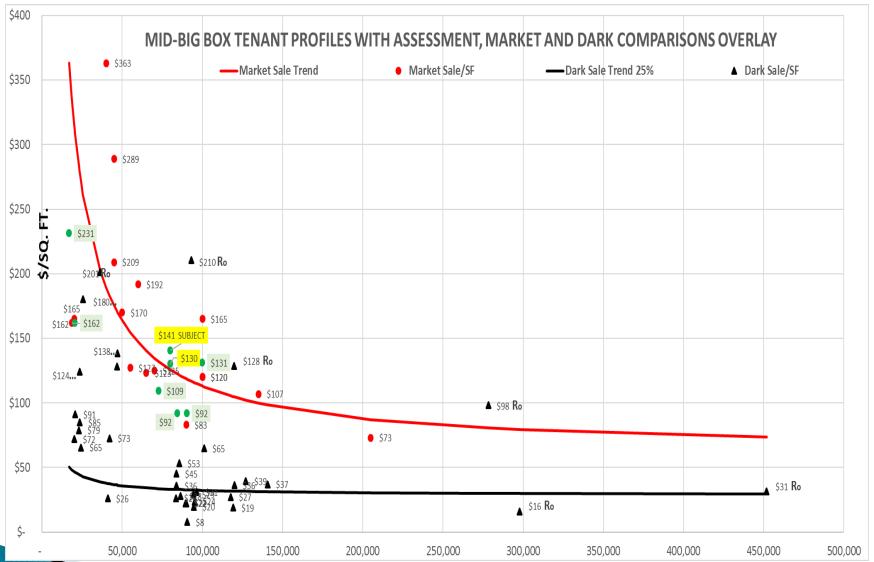
## COURT MID-BIG BOX DARK a \$61.2 Million Sample



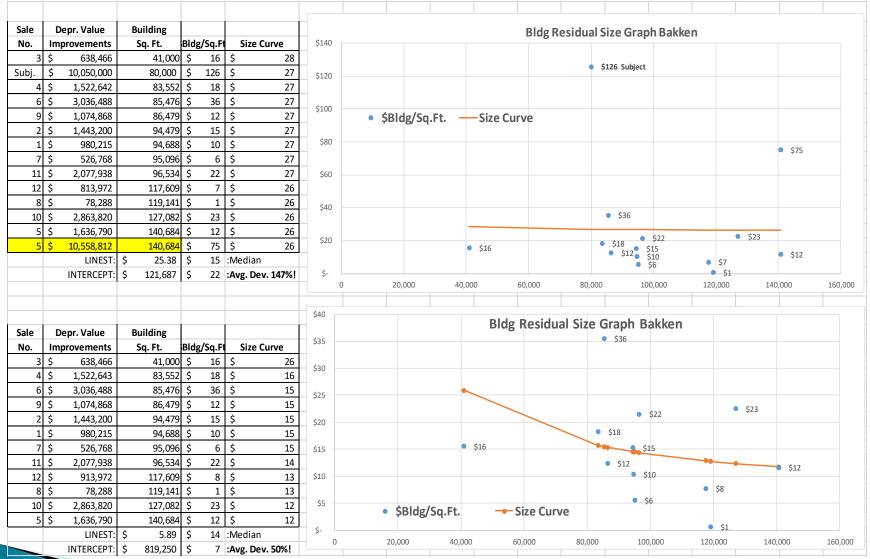
#### COURT DARK SALES COMPS WITH Ro COMPS



#### MID-BIG BOX MARKET COMPARISON DARK Vs. LEASED

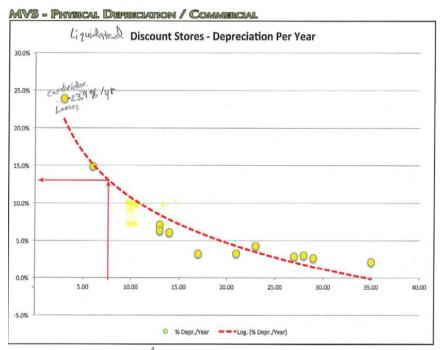


#### SALES COMPARISON QUALITY DARK VS LEASED



#### DARK DILEMA, OBSOLESCENCE IN THE COST APPROACH

#### Cost Approach



The table starts by taking the <u>sale price</u> and <u>sub-racting</u> of the land value at time of sale to <u>arrive</u> at the <u>contributory value</u> of the <u>building</u>. This is then <u>compared</u> to the <u>cost new</u> of the <u>building</u> and the <u>difference</u> is total <u>depreciation</u>. Since land does not depreciate, the depreciation is attributed to the improvements. The table below and on the prior

page shows the calculation of total depreciation and the conclusion of significant overall depreciation. In cases where stores are newer, the physical depreciation will be low but the functional and economic obsolescence will be high. For a seven year store, this would mean about 12.5% per year for a total depreciation of 87%

1 Marshall, MN         497,020 \$ 1.75 \$ 669,785         94,688 \$ 5           2 Dundas, MN         522,720 \$ 2.50 \$ 1,306,600         94,479 \$ 5           3 Waseca, MN         192,100 \$ 2.25 \$ 432,225         410,000 \$ 41,000 \$ 41,000 \$ 41,000 \$ 6           4 International Falls, MN         270,943 \$ 2.50 \$ 677,358         83,352 \$ 68,000 \$ 3,556,210           6 Roseville, MN         108,108 \$ 14,00 \$ 1,513,512         85,476 \$ 5           7 Cottage Grove, MN         430,808 \$ 4.00 \$ 1,272,232         95,096 \$ 5           8 S. Cloud, MN         546,678 \$ 4.00 \$ 1,345,132         119,141 \$ 5           9 Monticello, MN         336,283 \$ 4.00 \$ 1,345,132         86,479 \$ 5	70.00 \$ 6,628,160 1989 70.00 \$ 6,613,530 1990 70.00 \$ 2,870,000 1987 75.00 \$ 6,266,400 1981 80.00 \$ 11,254,720 2002	Sale         Sale         U∈ft Physical         T           2017         28.00         40.0%           2017         27.00         37.0%           2016         29.00         42.0%           2016         35.00         57.0%
3         Waseca, MN         192,100         \$         2.25         \$         432,225         41,000         \$           4         International Falls, MN         270,943         \$         2.50         \$         677,358         83,552         \$           5         Blaline, MN         712,642         \$         5.00         \$         3,563,210         140,684         \$           6         Rosewille, MN         108,108         \$         14,00         \$         1,513,512         85,476         \$           7         Cottage Grove, MN         430,808         \$         4.00         \$         1,723,232         95,096           8         S. C.Cloud, MN         546,678         \$         4.00         \$         2,186,712         119,141         \$	70.00 \$ 2,870,000 1987 75.00 \$ 6,266,400 1981	2016 29.00 42.0%
4         International Falls, MN         270,943         \$         2.50         \$         677,358         83,552         \$           5         Blaine, MN         712,642         \$         5.00         \$         3,561,210         140,684         \$           6         Roseville, MN         108,108         \$         140,0         \$         1,513,512         86,476         \$           7         Cottage Grove, MN         430,008         \$         4.00         \$         1,223,232         95,096         \$           8         K. Cloud, MN         546,678         \$         4.00         \$         2,186,712         119,141         \$	75.00 \$ 6,266,400 1981	
5         Blaine, MN         712,642         \$ 5.00         \$ 3,563,210         140,684         \$ 6           6         Roseville, MN         108,108         \$ 14.00         \$ 1,513,512         85,476         \$ 5           7         Cottage Grove, MN         430,808         \$ 4.00         \$ 1,723,232         95,096         \$ 5           8         S. Cloud, MN         546,678         \$ 4.00         \$ 2,186,712         119,141         \$ 1		2016 35.00 57.0%
6 Roseville, MN 108,108 \$ 14,00 \$ 1,513,512 85,476 \$ 7 Cottage Grove, MN 430,808 \$ 4.00 \$ 1,723,232 95,006 \$ 8 St. Cloud, MN 546,678 \$ 4.00 \$ 2,186,712 119,141 \$	80.00 \$ 11.254.720 2002	
7 Cottage Grove, MN 430,808 \$ 4.00 \$ 1,723,232 95,096 \$ 8 St. Cloud, MN 546,678 \$ 4.00 \$ 2,186,712 119,141 \$		2016 14.00 13.0% 4
8 St. Cloud, MN 546,678 \$ 4.00 \$ 2,186,712 119,141 \$	80.00 \$ 6,838,080 1999	2016 17.00 18.0%
	75.00 \$ 7,132,200 2002	2015 13.00 12.0%
9 Monticello, MN 336,283 \$ 4,00 \$ 1,345,132 86,479 \$	70.00 \$ 8,339,870 1991	2014 23.00 29.0%&
	70.00 \$ 6,053,530 2000	
10 Cambridge, MN 5,000,000 534,045 \$ 4.00 \$ 2,136,180 127,082 \$	80.00 \$10,166,560 . 28 22009	2013 13.00 12.0%
11 Austin, MN 307,354 \$ 3.00 \$ 922,062 96,534 \$	70.00 \$ 6,757,380 1991	2012 21.00 /25,0%
12 Rogers, MN 571,507 \$ 4.00 \$ 2,286,028 117,609 \$	75.00 \$ 8,820,675 2006	2012 6.00 / (4.0%)

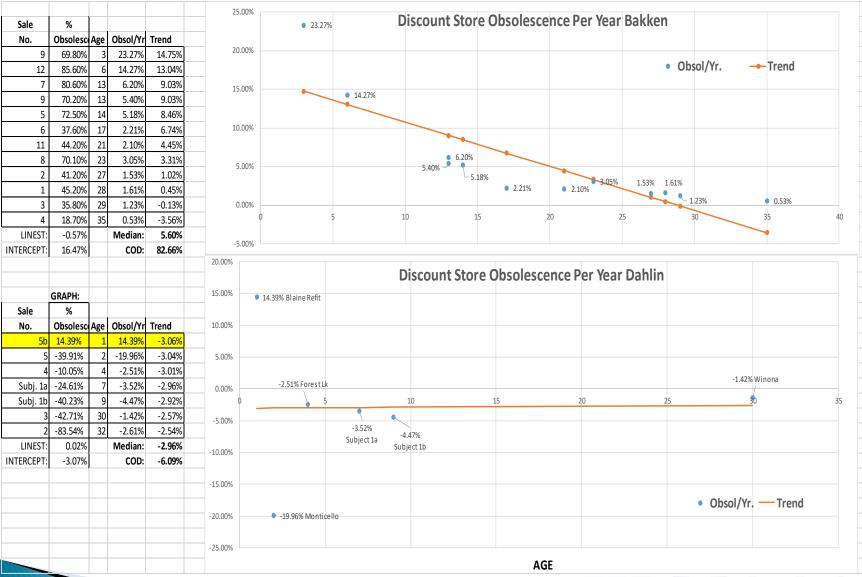
#### OBSOLESCENCE CALCULATION IN THE COST APPROACH

	DEED RESTRICTIO	N I	MPACT	С	D			F				н	ı	
	PETITIONER	1	Α	A X B = C	A-C = D	E		D + E = F	В		G	(F - G) / G = H	(F - G) /F = I	
Sale			Cost New	M & S %	RCNLD (M&S)	Plus Land	RC	CNLPhysD	М&Ѕ%	De	eed Restr.	Deed Restr.	Deed Restr.	
No.	Property	In	nprovements	Physical	New Impr.	Value	Sa	le Price	Physical	S	ale Price	Adj. to Sale	Adj. to RCNLP	hysD
1	Marshall, MN	\$	6,628,160	\$ 2,651,264	\$ 3,976,896	\$869,785	\$	4,846,681	40.00%	\$	1,850,000	162.0%		61.8%
2	Dundas, MN	\$	6,613,530	\$ 2,447,006	\$ 4,166,524	\$1,306,800	\$	5,473,324	37.00%	\$	2,750,000	99.0%		49.8%
3	Waseca, MN	\$	2,870,000	\$ 1,205,400	\$ 1,664,600	\$432,225	\$	2,096,825	42.00%	\$	1,070,691	95.8%		48.9%
	International Falls, MN	\$	6,266,400	\$ 3,571,848	\$ 2,694,552	\$677,358	3 \$	3,371,910	57.00%	\$	2,200,000	53.3%		34.8%
5	Blaine, MN	\$	11,254,720	\$ 1,463,114	\$ 9,791,606	\$3,563,210	\$	13,354,816	13.00%	\$	5,200,000	156.8%		61.1%
6	Roseville, MN	\$	6,838,080	\$ 1,230,854	\$ 5,607,226	\$1,513,512	2 \$	7,120,738	18.00%	\$	4,550,000	56.5%		36.1%
1	Cottage Grove, MN	\$	7,132,200	\$ 855,864	\$ 6,276,336	\$1,723,232	2 \$	7,999,568	12.00%	\$	2,250,000	255.5%		71.9%
8	St. Cloud, MN	\$	8,339,870	\$ 2,418,562	\$ 5,921,308	\$2,186,712	2 \$	8,108,020	29.00%	\$	2,265,000	258.0%		72.1%
9	Monticello, MN	\$	6,053,530	\$ 726,424	\$ 5,327,106	\$1,345,132	2 \$	6,672,238	12.00%	\$	2,420,000	175.7%		63.7%
10	Cambridge, MN	\$	10,166,560	\$ 203,331	\$ 9,963,229	\$2,136,180	\$	12,099,409	2.00%	\$	5,000,000	142.0%		58.7%
11	Austin, MN	\$	6,757,380	\$ 1,689,345	\$ 5,068,035	\$922,062	2 \$	5,990,097	25.00%	\$	3,000,000	99.7%		49.9%
12	Rogers, MN	\$	8,820,675	\$ 352,827	\$ 8,467,848	\$2,286,028	\$	10,753,876	4.00%	\$	3,200,000	236.1%		70.2%

Averages: \$ 7,311,759 \$ 1,567,987 \$ 5,743,772 \$ 1,580,186 \$ 7,323,958 24.3% \$ 2,979,641 149.2% 56.6%



#### OBSOLESCENCE %/Yr. CALCULATION IN THE COST APPROACH





The problem with attempting to quantify impact of a deed restriction is that you need a successful original user to sell a store where the highest and best use remains the 1<sup>st</sup> generation use, by choice, and not restrict that property when they leave.

- When Rainbow became Lunds, Fresh Thyme, etc. the missing piece was leaving by choice.
- When Wal Mart left a location to build across the highway, the missing piece was that they left it deed restricted.

- Comparing two sales that both are used for new 2<sup>nd</sup> generation uses, one restricted and one unrestricted, does nothing to prove the impact.
- The unrestricted sale in this scenario has a different highest and best use than the unrestricted 1st generation use anyways.
- You need a location where the store will otherwise be a great candidate for continued first generation use, because it's proven and continues to be a successful location, but can't be going forward due to the restriction.



## Required Scenario:

	Sale #1	Sale #2
1st Generation Use	Retail - Home Improvement	Retail - Home Improvement
<b>Current Location Performance</b>	Supports 1st Generation Use	Supports 1st Generation Use
H & B Use	Retail - Home Improvement	Retail - Home Improvement
Scenario	Thriving location is abandoned and sold by choice	Thriving location is abandoned and sold by choice
Deed Restrictions	No	Yes

This scenario doesn't work, because if the 1st generation use is restricted, but is no longer the highest and best use anyways, what can you glean from a restriction preventing an obsolete use?:

	Sale #1	Sale #2
1st Generation Use	Retail - Home Improvement	Retail - Home Improvement
Current Location Performance	DOES NOT support 1st generation use	DOES NOT support 1st generation use
H & B Use	Retail - furniture	Retail - Go-Kart track
Scenario	Failing location is abandoned and sold by choice	Failing location is abandoned and sold by choice
Deed Restrictions	No	Yes

This scenario doesn't work, because if the 1st generation use is not restricted, but the sale was distressed to begin with, you do not have two arm's length transactions to compare, and adjusting sale #1 for this influence is likely to prove very difficult:

	Sale #1	Sale #2
1st Generation Use	Retail - Home Improvement	Retail - Home Improvement
<b>Current Location Performance</b>	Supports 1st Generation Use	Supports 1st Generation Use
H & B Use	Retail - Home Improvement	Retail - Home Improvement
Scenario	Thriving location is abandoned and sold <b>DUE TO</b> CORPORATE FAILURE	Thriving location is abandoned and sold by choice
Deed Restrictions	No	Yes

# Level of Appraisal Standards (IAAO section 11.1 in Part 2)

"The calculated measures of central tendency are point estimates and provide only an indication, not proof, of whether the level meets the appropriate goal. Confidence intervals and statistical tests should be used...."



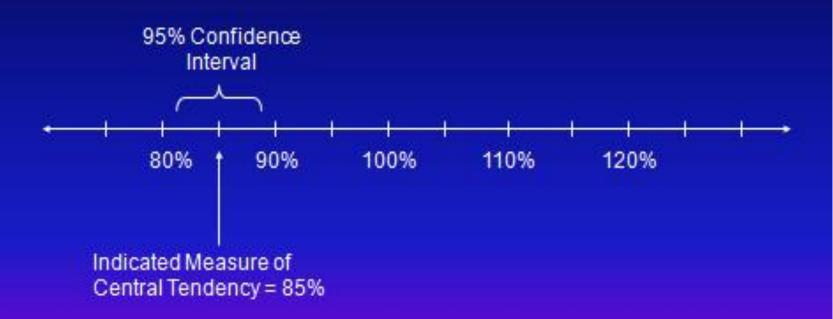
# **IAAO Standard**

Ratio Study Standards and Decision Making--Using Median 90%-110% Standard Example demonstrating application of standard at a 95% level of confidence

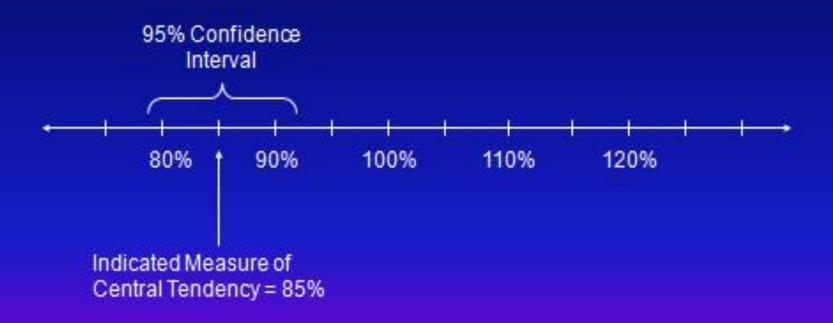
					Cl Overlaps Preferred	Point Estimate	Equalization Action or
	Point	Confidence	e Inte	rval (CI)	Standard	in Preferred	Reappraisal
Case	<b>Estimate</b>		Width		Range	Standard Range	Order
1	92%	86%	to	101%	yes	yes	no
2	88%	81%	to	95%	yes	no	no
3	84%	79%	to	88%	no	no	yes



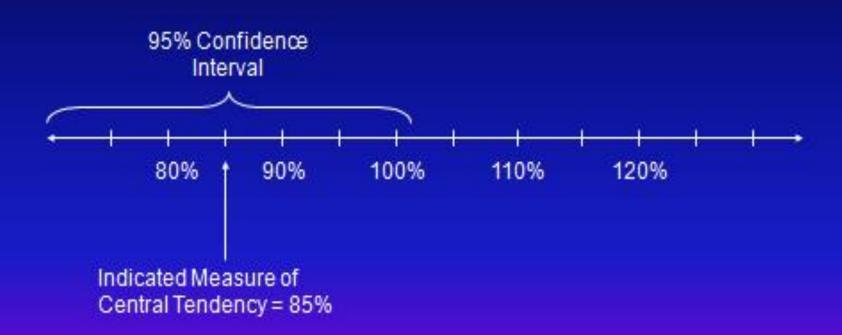
# **Confidence Interval Example 1**



# **Confidence Interval Example 2**



# **Confidence Interval Example 3**



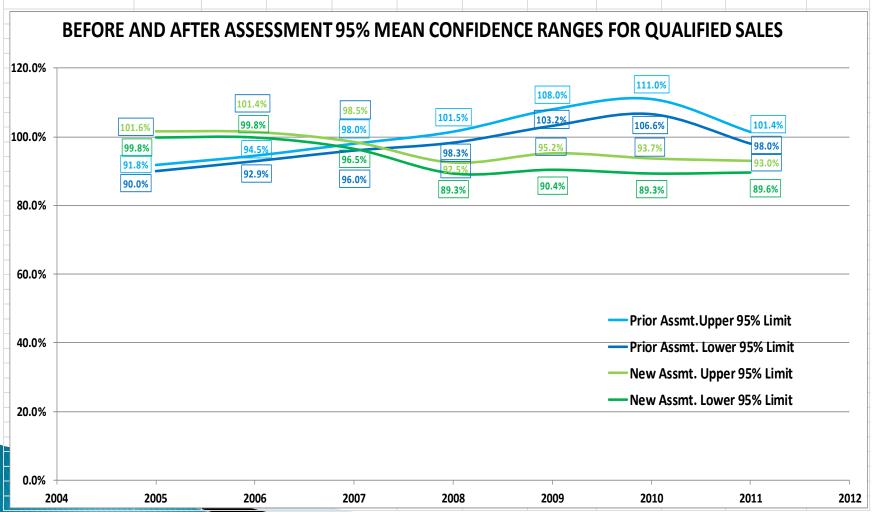
# High Variability and Small Samples

- Can cause wide confidence intervals
- Jurisdictions may never subject to equalization, or reappraisal
- Recommendations:
  - Expand sample sizes
  - Decrease confidence levels (ie: 95% confidence, etc.) by 5% per year if point estimate outside desired range
    - May lower confidence level to 70%
  - Decisions based on point estimates after 5 consecutive years

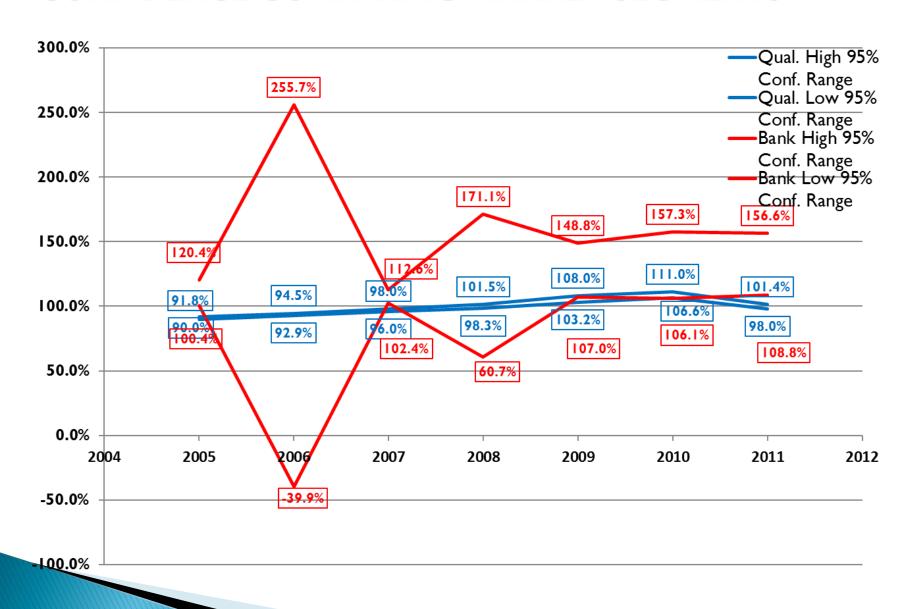


#### **CONFIDENCE BEFORE & AFTER EQUALIZATION**

<b>BEFORE AND AFTE</b>	R ASSESS	SMENT CO	NFIDENC	E RANGES	S FOR QU	ALIFIED S	ALES
Assessment / Sale Year	2005	2006	2007	2008	2009	2010	2011
Prior Assmt.Upper 95% Limit	91.8%	94.5%	98.0%	101.5%	108.0%	111.0%	101.4%
Prior Assmt. Lower 95% Lim	90.0%	92.9%	96.0%	98.3%	103.2%	106.6%	98.0%
New Assmt. Upper 95% Limit	101.6%	101.4%	98.5%	92.5%	95.2%	93.7%	93.0%
New Assmt. Lower 95% Limi	99.8%	99.8%	96.5%	89.3%	90.4%	89.3%	89.6%



#### CONFIDENCE COMPARING MARKET SEGMENTS

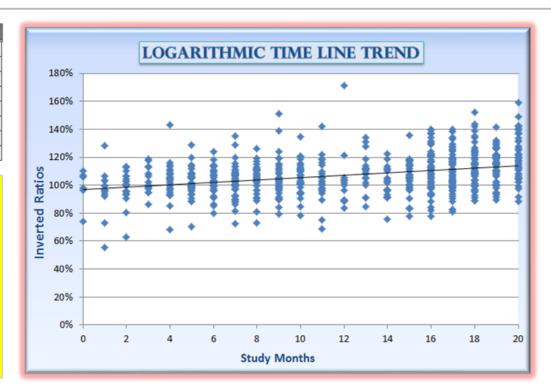


## Confidence of Time Adjustment Calculation

Intercept Year Sale Count 662 0.0080 Slope Intercept 0.968 P-Value 0.0% Significance 100.0% Monthly Trend 0.80% Annual Trend 10.0% Applied Trend 10.0%

The intercept year should be equal to the first year of the study. If it is lower then the sales sample on the Data tab incudes sales that are too old. If it is higher then you need to be sure to include all sales from the 21 month study period.

The annual trend is the estimated time trend (regardless of significance). If the significance level is greater than 90% and the total number of sales is greater than or equal to 30, a time trend will be applied and equal to the "applied trend" value above.



■ Intercept: 96.8%

■ Slope: +0.80

Significance: 100.%

Define Adjustment Regions

•

Before October 2010

If the result is deemed statistically significant (confidence level > 90%) a time adjustment is applied to the corresponding sales. Otherwise sales prices are not adjusted for time.



# QUESTIONS

?????