APPRAISER CERTIFICATION BOARD

November 9, 2023

Agenda Item 3

Meeting Minutes

APPRAISER CERTIFICATION BOARD

MEETING MINUTES

Nevada Department of Taxation Carson City Large Conference Room 1550 College Parkway Carson City, Nevada

&

Via Zoom

September 7, 2023 9:30 a.m.

Members Present:

Jayme Jacobs Sorin Popa Jana Seddon Richard Ewell Lorna Quisenberry Chris Sarman

Members Absent:

1. Introductions of members and staff.

Jayme Jacobs opened the meeting at 9:35 a.m. Christina Griffith with the Department took roll call; all members were present.

2. Public Comment

There was no public comment.

3. Review and Consideration for Approval of the May 11, 2023 Appraiser Certification Board Meeting Minutes (for possible action).

Lorna Quisenberry moved to approve the minutes of May 11, 2023 with a correction to the ending time. Jana Seddon seconded the motion. Motion passed unanimously.

- 4. Review and Consideration of Continuing Education Credit Hours (for possible action).
 - a) McKissock Market Disturbances, Hours on Certificate
 - b) McKissock Supporting Adjustments, Hours on Certificate
 - c) McKissock Learning from the Mistakes of Others, Hours on Certificate
 - d) McKissock Responding to a Reconsideration of Value, Hours on Certificate
 - e) UNR ACC 202 Managerial Accounting, Hours on Certificate
 - f) College of Southern NV ACC 201 Financial Accounting, Hours on Certificate
 - g) Shasta College ECON 1A, Hours on Certificate
 - h) Shasta College ECON 1B, Hours on Certificate
 - i) Shasta College MATH 14 Introduction to Statistics, Hours on Certificate
 - j) IAAO 2023 GIS/Valuation Conference, Hours on Certificate

Jana Seddon motioned to approve items "a", "b", "f", "g", "h", and "i". Chris Sarman seconded the motion. Motion passed unanimously.

Jana Seddon motioned to deny item "c". Chris Sarman seconded the motion. Motion passed 4 to 2, Lorna Quisenberry and Sorin Popa voted nay.

Lorna Quisenberry motioned to approve item "e". Sorin Popa seconded the motion. Motion passed unanimously.

Lorna Quisenberry motioned to approve item "d". Chris Sarman seconded the motion. Motion passed unanimously.

Chris Sarman motioned to approve item "j". Richard Ewell seconded the motion. Motion passed unanimously.

5. Discussion regarding the review for testing (for discussion only).

Jana Seddon discussed issues with the Department of Taxation's testing review. She noted Mark Stafford is willing to do a class but would like him to have access to the test to build a class from it.

Hector Sepulveda provided the statistics of pass rates for 2018 through 2023.

Chris Sarman noted it falls on the assessors to study for the test and hopes Mark Stafford could review old tests.

Jana Seddon reiterated the State would have to approve someone having access to the test. Chris Sarman noted the test wouldn't be needed, just the conceptuality of the test.

Hector Sepulveda stated the areas assessors are failing on the different tests.

Christina Griffith read the statute relating to State testing for Appraiser Certification.

6. Briefing to and from Appraiser Certification Board and Department Staff (for discussion only).

Hector Sepulveda informed the Board on the next testing dates. In Las Vegas on October 19, Ethics on October 3, and in Fallon on September 1, 2023.

7. Schedule Date and Review Agenda Topics for the Next Appraiser Certification Board Meeting (for possible action).

Christina Griffith suggested the next meeting be held November 2nd or November 9th.

8. Public Comment

There was no public comment.

9. Adjournment.

Meeting adjourned at 11:00 a.m.

APPRAISER CERTIFICATION BOARD

November 9, 2023

Agenda Item 4

(a) Clark County-Clark County Appraisal Class

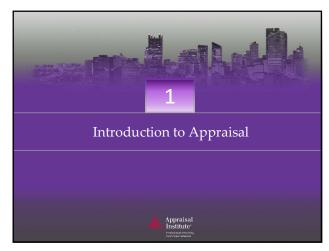


Nevada Department of Taxation Property Tax Appraiser Continuing Education New Course Application

Return this form to: Division of Local Government Services 1550 College Parkway Carson City, Nevada 89706

	o receive contact hours for a course of continuing education
that has not been previously approved, must appl	ly for such approval.)
TITLE OF COURSE	
Clark County Appraisal Class	
VENDOR/PROVIDER	
Clark County	
1. Course Summary:	
	isal of Real Estate 15th Edition. The class consists of utilizing various chapters from
<u> </u>	oduction to appraisal, the nature of value, site valuation, market analysis,
ale comparison approach, and income approach. There will be oper	n book quizes throughout, but no graded final exam.
2. What are the hours of instruction? 36 hours	
3. What is the completion date?This course w	vill be given the first or second week of December 2023.
SUBJECT CLASSIFICATION - CHECK ALL THAT A	APPLY
 ☒ Mass Appraisal Concepts and Applications ☐ IAAO Standards ☒ Residential, Commercial/Industrial Appraisal ☐ Unitary/Centrally Assessed Property Appraisal ☐ Legal Documents (Deeds, Titles, Leases, etc.) ☒ Nevada Statutes or Regulation, Appraisal or Assessment Standards 	 □ College or Professional Level Accounting, Finance, Statistics or Other Appraisal Subjects □ GIS, Mapping, CAMA □ Laws Relating to Real Estate, Water or Mining □ Professional Ethics □ Other
	able to appraisal and/or property tax. I Institute, the students will purchase The Student sal. I have been authorized to use the materials by Appraisal Institu
REQUIRED MATERIALS TO BE SUBMITTED WITH ☐ Detailed Course Outline ☐ Syllabus or Course Material	I APPLICATION INCLUDE:
SIG	
>	10/3/2023
	Date
For Department Use Only NUMBER OF CREDIT HOURS GRANTED NUMBER OF CREDIT HOURS APPEARI	
NUMBER OF CREDIT HOURS GRANTED NUMBER OF CREDIT HOURS APPEARIN	ING ON TRANSCRIPT MILESTONE APPLIED TO TOTAL HOURS FOR THIS MILESTONE
/erified by:	
•	
livision of Local Government Services	Date

		Clark County Appraisal of Real Estate
Day	Minutes	oraisal Institute, Student Handbook to The Appraisal of Real Estate, 15th edition Topics
1 1	30	Course regulations, instructor introduction, schedule, and goals
'	60	Chapter 1: Introduction to Appraisal
	45	Chapter 2: Land, Real Estate, and Ownership of Real Property
	45	Chapter 3: The Nature of Value
	60	Chapter 4 : The Valuation Process
	60	Chapter 9: Data Collection
	60	Quiz and Review
	360	Quiz and Noview
2	90	Chapter 11: Neighborhoods, Districts, and Market Areas
	60	Chapter 12: Land and Site Description
	120	Chapter 13: Building Description
	60	Quiz and Review
	30	Start Chapter 14: Statistical Analysis in Appraisal
	360	
3	120	Finish Chapter 14: Statistical Analysis in Appraisal
	90	Chapter 15: Market Analysis
	90	Chapter 17: Highest and Best Use Analysis
	60	Quiz and Review
	360	
4	90	Chapter 19: Land and Site Valuation
	90	Chapter 20: The Sales Comparison Approach
	90	Chapter 21: Comparative Analysis
	90	Chapter 22: Applications of the Sales Comparison Approach
	360	
5	120	Chapter 23: The Income Capitalization Approach
	60	Chapter 24: Income and Expense Analysis
	30	Chapter 25: Direct Capitalization
	45	Chapter 27: Discounted Cash Flow Analysis and Investment Analysis
	45	Chapter 28: Applications of the Income Capitalization Approach
	60	Quiz and Review
	360	
	1,800	36 hours x 50 minutes per hour = 1,800 minutes
Total time	36 Hours	No graded final exam



Real Estate vs. Real Property Real estate is the physical thing. Real estate can be touched but it cannot be appraised or sold. Real property is the rights in realty. Real property cannot be touched but it can be appraised and sold. The Student Handbook to The Appraisal of Real Estate, ISTHEDITION Chapter 1.

2

The Bundle of Rights The right to use, enter, and occupy real estate The right to sell a property or give it away The right to lease a property The right to mortgage a property The right to create a life estate

 Taxation 		
 Eminent domain 		
 Police power 		
• Escheat		

Private Restrictions on Ownership Rights of way Party-wall agreements Deed restrictions Subdivision covenants and restrictions The Student Handbook to THE APPRAISAL OF REAL ESTATE, 15TH EDITION Chapter 1 5

5

Private Restrictions on Ownership, continued • Easements • Affirmative easement • Appurtenant easement • Conservation easement • Easement by necessity • Easement by prescription • Easement in gross • Negative easement • Preservation easement The Student Handbook to The Appraisal Of Real Estate, ISTH EDITION Chapter 1 6

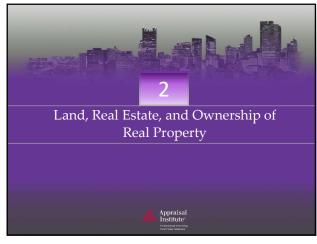
Non-Realty Assets Personal property is tangible but not affixed to the real estate. Financial assets consist of nonphysical assets. Contracts Franchises Trademarks Copyrights Goodwill items

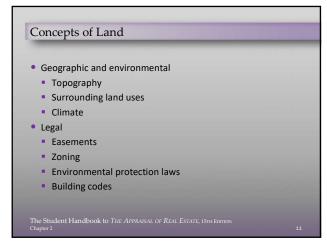
7

Why Appraisals Are Needed Ownership transfers Credit and financing Litigation Investment counseling Decision making Accounting The Student Handbook to THE APPRAISAL OF REAL ESTATE, 15TH EDTION Chapter 1

8

Why Appraisals Are Needed, continued • Definition of value – Type of value appraised can affect the opinion of value • Intended use and intended user The Student Handbook to THE APPRAISAL OF REAL ESTATE, ISHI EDITION Chapter 1 9



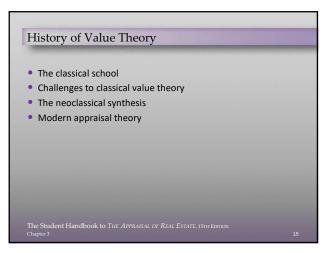


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• Land				
Labor				
 Capital 				
• Entrepreneu	ırial coordir	ation		

Factors of Value	
Utility	
• Scarcity	
• Desire	
Effective purchasing power	
- Effective purchasing power	
The Student Handbook to The Appraisal of Real Estate, 15th Edition Chapter 3	

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Demand is created by the four factors of value Entrepreneurs create supply to satisfy demand Reading the market necessitates reading supply and demand factors The Student Handbook to The Appraisal of Real Estate, Isin Edition Chapter 3

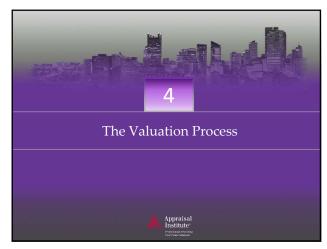
Price – Agreed-upon factual amount of a real estate transfer Cost – Required dollar amount to reproduce, build, or assemble Value – Describes worth The Student Handbook to The Appraisal of Real Estate, 15th Edition.

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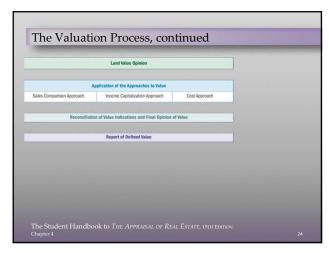
Anticipation and Change Present worth of future benefits Anticipation creates demand and value Real estate markets change constantly The Student Handbook to THE APPRAISAL OF REAL ESTATE, 15TH EDMON Chapter 3 20

20

Supply and Demand, Substitution, Balance, and Externalities Supply and demand control prices Effective demand – demand and effective purchasing power Competition is the source of an item's value Substitution is needed for an open competitive market Balance Diminishing returns Contribution Surplus productivity Conformity Externalities affect real estate values The Student Handbook to The Appraisal of Real Estate, Isth Editor.



		Identification of	of the Problem			
Identify the client and intended users	Identify the intended use	Identify the type and definition of value	Identify the effective date of the opinion	Identify the relevant characteristics of the property	Identify any assignment conditions	
		Scope of Work	Determination		_	
		Data Collection and	Property Descrip	tion		
General cha	Area Data aracteristics of nd neighborhood	Subject Prop Subject characteristic and use and im personal proper assets,	teristics of provements, ty, business	Comparable Prop Sales, listings, vacancies, cost and o income and exp capitalization rai	offers, depreciation, senses,	
		Data A	nalysis			
Den Su	ket Analysis nand studies oply studies tability studies		L	est and Best Use Analys and as though vacant, Ideal improvement Property as improved	is .	



Identification of the Appraisal Problem Client Intended users Intended use Type of value and definition Effective date of opinions and conclusions Relevant property characteristics Assignment conditions Extraordinary or special assumptions Hypothetical conditions Jurisdictional exceptions

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Scope of Work Determination 1. Identify the appraisal problem 2. Determine the scope of work necessary to solve the problem 3. Apply the scope of work to solve the problem The Student Handbook to The Appraisal of Real Estate, 15th Edition Chapter 4

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Scope of Work Determination, continued What are you being asked to do? What is the required level of detail? How should you plan the appraisal? What type of research will you do? What type of property inspection will you need to do? How will you prepare the value opinion? The Student Handbook to The Appraisal OF Real Estate, ISTHEDITION Chapter 4

Data Collection and Property Description Market area data General characteristics of region, city, and neighborhood Subject property data Personal property Business assets The Student Handbook to The Appraisal Of Real Estate, ISTHEDITION Chapter 4

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Data Collection and Property Description, continued Comparable property data Comparable sales Comparable listings (offerings) Vacancy rates Cost and depreciation comparables Income and expense comparables Capitalization rates (R_O, EGIM, GRM) The Student Handbook to THE APPRAISAL OF REAL ESTATE, ISTHEDITION Chapter 4

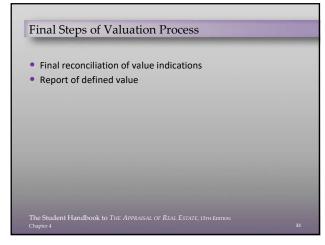
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Data Analysis Market analysis Demand studies Supply studies Highest and best use analysis Site as though vacant Property as improved The Student Handbook to The Appraisal of Real Estate, Isin Editors Chapter 4 30

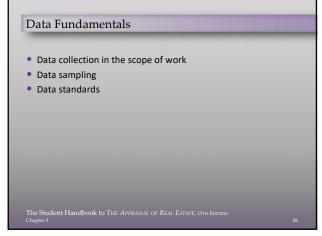
 Sales compari 	son		
 Allocation 			
 Extraction 			
 Land residual 	technique		
 Income capita 	lization techr	iques	
Subdivision	developmen	t analysis	
Ground ren	t capitalizatio	n	

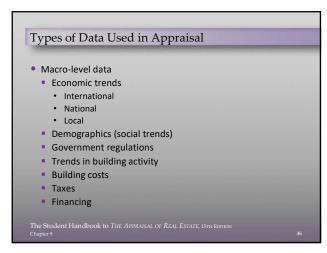
Application of the Three Approaches to Value Sales comparison approach Cost approach Income capitalization approach The Student Handbook to THE APPRAISAL OF REAL ESTATE, 15TH EDITION Chapter 4

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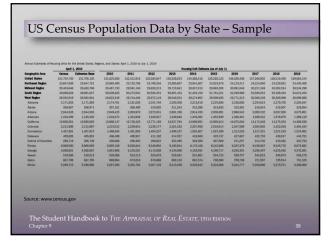


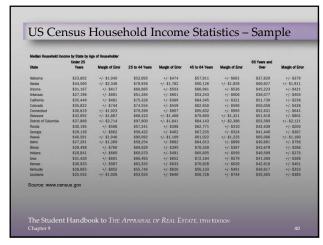




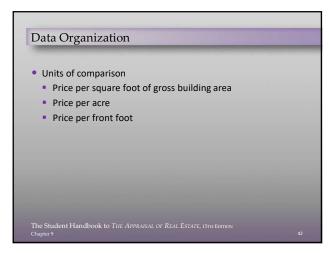
• Mi	cro-level	Nata				
	Competiti		invento	rv		
	Measures			.,		

 Multiple list 	ing services	(MLS)		
 Public recor 				
 Listings and 	offerings			
• Published no	ews			
 Market part 	icipants			
• National pro	perty datab	ases		



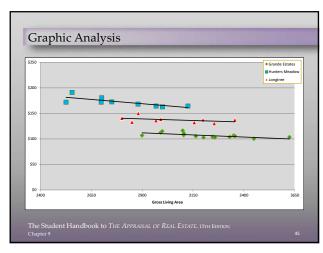


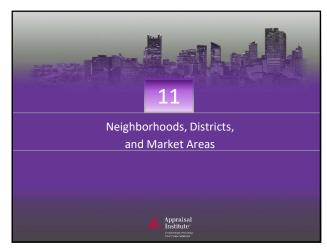
• So	urces of competitive supply and demand data	
	Geographic information systems (GIS) and TIGER data	
• Se	lecting comparable data and establishing comparability	
• Ve	rification	



	SUBJECT	Comparal	ble 1	Comparati	ble 2	Comparal	ble 3
Address	6622 Lakeshore Blvd.	6663 Lakeshore Blvc		6569 Lakeview Road		5987 Beech Road	
Proximity to subject		Same platted additio		Same platted additio		Same platted additio	
Sale price Sale price/GLA		\$ 129.66	\$376,000	S 110.21	\$333,500	\$ 118.48	\$391,00
Sale price/GLA Data source/verification	Inspection	\$ 129.66 MLS 40037	4	MLS 19816	4	MLS 33388	4
Value adjustments	Description	Description	Adjustment	Description	Adjustment	Description	Adjustmen
Sales—financing concessions	Assume none	No concessions	8 -	No concessions	\$.	No concessions	\$.
Date of sale/time @ 3%	Now	6 months ago	\$ 5,600	9 months ago	\$ 7.500	11 months ago	\$ 10.81
Location	Lakeshore acres	Lakeshore acres	s -	Lakeshore acres	\$ -	Lakeshore acres	\$.
Leaseholdifee simple	Fee simple	Fee simple	s -	Fee simple	\$ -	Fee simple	\$ -
Site/view	90x137/lake fmt	90x160/lake fmt	\$ (3,800)		\$ (6,700)	65x170/take frnt	\$ (7,8
Design (style)	2 story/avg	2 storylavg.	S -	2 story/avg.	s -	2 story/avg.	s .
Actual age/effective age @ \$4,000 yr.	11 Average	9	\$ (8,000)	17 Average	\$ 24,000	3 Average	\$ (32,0
Above grade room count	10 4 3.5	Average 10 4 3.5	0 -	Average 10 4 3.5	s -	10 4 3.5	s .
Gross living area @ \$45	3232	2900	\$ 14,900	3026	\$ 9,300	3300	\$ (3.1
Basement @ \$15	1200	1127	\$ 1,100	1706	\$ (7,600)	900	\$ 4.5
Finished area below grade @ \$10	1.000	800	\$ 2,000	1,200	\$ (2,000)	600	\$ 4.0
Heating and cooling	GFA/No AC	GFA/Cent AC	S -	GFA/Cent AC	\$ -	GFA/Cent AC	\$.
Garage/carport	3 caridtigar	3 carlatigar	s -	3 cat/at/gar	s -	3 carlatigar	s -
	Scr. porch	Deck	\$ 5,000	Deck	\$ 5,000	Scr. porch	\$.
Other		Pool	\$ (25,000)	None	s -	None	\$.
Net adjustment Adjusted sale price of comparable			\$ (8,200)		\$ 29,500		\$ (23,60

Address		Price	Sale Date	Bd	Bath F/H	Legal	Garage	Level	Bas	GLA	\$ per s.f.
13992 Washita CT	\$	310,000	568 days ago	4	2/1	Grande Est.	3CarAtt	2 Levels	N	2900	\$106.90
13960 Wildoat DR	\$	336,500	134 days ago	4	0/0	Grande Est.	2CarAtt	2 Levels	N	2991	\$112.50
13947 Wildoot DR	S	345,000	321 days ago	4	211	Grande Est.	3CarAtt	2 Levels	N	2999	\$115.04
5779 Osage DR	\$	360,500	45 days ago	4	3/2	Grande Est	3CarAtt	2 Levels	N	3100	\$116.29
14070 Planting	\$	333,500	11 days ago	4	3/0	Grande Est.	3CarAtt	2 Levels	N	3104	\$107.44
2671Heather S. Dr	\$	345,000	548 days ago	3	3/1	Grande Est.	3CarAtt	2 Levels	N	3105	\$111.11
13976 Wildoat DR	\$	333,000	85 days ago	4	4/0	Grande Est.	3CarAtt	2 Levels	N	3164	\$105.25
13946 Wildoat DR	\$	329,000	25 days ago	4	3/1	Grande Est.	3CarAtt	2 Levels	N	3202	\$102.75
2420 Winfield DR	\$	339,000	18 days ago	4	3/1	Grande Est.	3CarAtt	2 Levels	N	3247	\$104.40
14233 Lacey St	\$	336,000	32 days ago	5	3/2	Grande Est.	3CarAtt	2 Levels	N	3248	\$103.45
14260 Trailwind CT	\$	335,000	125 days ago	- 4	3/1	Grande Est.	3CarAtt	2 Levels	N	3258	\$102.82
5062 Clearview DR	\$	345,600	111 days ago	4	3/1	Grande Est.	3CarAtt	2 Levels	N	3330	\$103.78
2716 Windy Knoll LN	\$	356,800	258 days ago	3	2/1	Grande Est.	3CarAtt	2 Levels	N	3350	\$106.51
2666 Heather S. Dr	\$	355,000	45 days ago	3	3/1	Grande Est.	3CarAtt	2 Levels	N	3356	\$105.78
1031 Spring Highland	\$	345,800	63 days ago	4	3/2	Grande Est.	2CarAtt	2 Levels	N	3450	\$100.23
609 Woodlake Drive	\$	375,000	211 days ago	5	4/1	Grande Est.	3CarAtt	2 Levels	N	3625	\$103.45
73 Allenhurst Circle CI	\$	435,000	8 days ago	3	3/0	Hunters Meadow	2CarAtt	2 Levels	N	2525	\$172.28
12462 Burke DR	\$	489,000	45 days ago	3	3/0	Hunters Meadow	2CarAtt	1 Level	N	2555	\$191.39
103 Hummingbird CI	\$	465,000	25 days ago	3	2/0	Hunters Meadow	3CarAtt	2 Levels	N	2698	\$172.35
1077 Spring Highland DR	\$	489,000	456 days ago	3	3/1	Hunters Meadow	2CarAtt	2 Levels	N	2700	\$181.11
3714 Penzance PL	\$	475,000	14 days ago	4	4/0	Hunters Meadow	3CarAtt	2 Levels	N	2750	\$172.73
5961 Champions Drive	\$	485,000	35 days ago	4	3/1	Hunters Meadow	3CarAtt	1 Level	N	2879	\$168.46
12609 Branford ST	\$	489,000	65 days ago	3	2/1	Hunters Meadow	2CarDet	2 Levels	N	2968	\$164.76
5771 Herron Dr	\$	489,000	92 days ago	4	3/1	Hunters Meadow	2CarAtt	2 Levels	N	3000	\$163.00
12062 Ashcroft PL	\$	515,000	359 days ago	- 4	3/1	Hunters Meadow	3CarAtt	2 Levels	N	3125	\$164.80
3792 Heathfield CT	\$	391,915	35 days ago	4	2/1	Longtree	3CarAtt	2 Levels	N	2800	\$139.97
3761 Branch Creek CT	\$	394,405	37 days ago	4	2/1	Longtree	3CarAtt	1 Level	N	2800	\$140.86
3772 Heathfield Ct	\$	379,000	125 days ago	4	2/1	Longtree	3CarAtt	2 Levels	N	2850	\$132.98
3746 Castle DR	\$	432,500	354 days ago	5	3/1	Longtree	3CarAtt	1 Level	N	2881	\$150.12
11761 Sweeping Ridge	\$	404,000	65 days ago	4	3/1	Longtree	3CarAtt	2 Levels	N	2968	\$136,12
3746 Branch Creek CT	\$	415,000	158 days ago	4	2/1	Longtree	3CarAtt	2 Levels	N	2992	\$138.70
12069 Auburn Crossing	\$	417,568	52 days ago	4	3/1	Longtree	3CarAtt	2 Levels	N	3156	\$132.31
12143 Team Lane	\$	439,750	245 days ago	4	3/1	Longtree	3CarAtt	2 Levels	N	3200	\$137.42
2644 Royal Blvd.	\$	425,000	45 days ago	5	4/1	Longtree	3CarAtt	2 Levels	N	3255	\$130.57
3770 Heathfield CT	\$	460,655	952 days ago	4	3/1	Longtree	3CarAtt	2 Levels	N	3356	\$137.26
The Student H	land			_				-			0137.20





Distinctions Between Market Areas, Neighborhoods, and Districts

Neighborhood – Group of complimentary land uses
District – Type of neighborhood characterized by one predominant land use (area of influence)
Market area – Area where similar properties compete with the subject property in minds of potential buyers/users
Can include several districts and often includes more than one neighborhood

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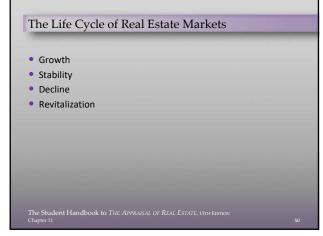
Defining Characteristics of a Market Area, continued

Location and geographical boundaries
Supply of substitute properties
Proximity of complementary properties
Support facilities

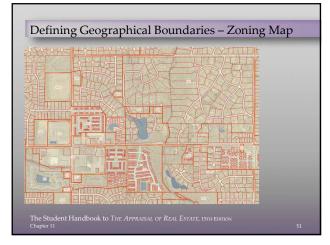
The Student Handbook to THE APPRAISAL OF REAL ESTATE, 15TH EDITION
Chapter 11

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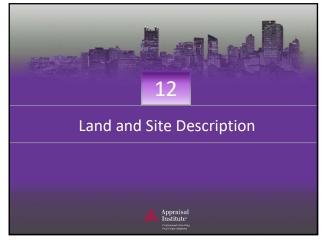
1. Social			
Demographi	cs		
2. Economic			
Employment	t		
Supply and o	demand		



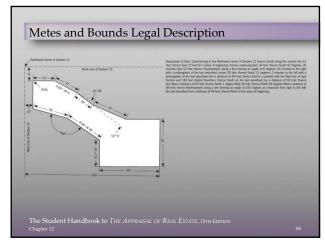


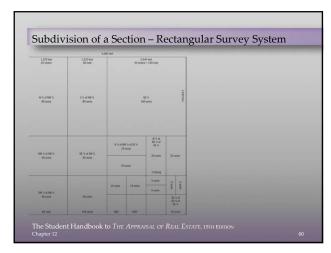
Characteristics of Real Estate Districts, continued	
• Industrial	
Flex space	
Warehouse and distribution centers	
Manufacturing	
Agricultural	
The Student Handbook to The Appraisal of Real Estate, 15th Edition Chapter 11	

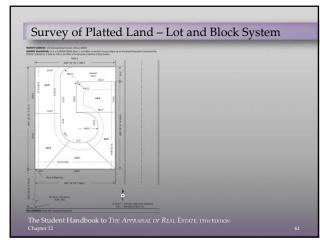


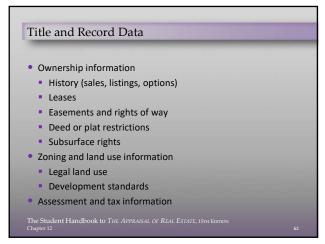


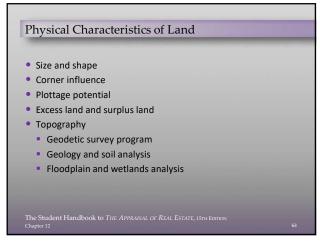
•	Metes and bounds system
	Monuments
	Point of beginning (POB)
•	Rectangular survey system (government survey system)
	 Township and range lines
	Correction lines and guide meridians
	• Sections
•	Lot and block system
	Lot numbers









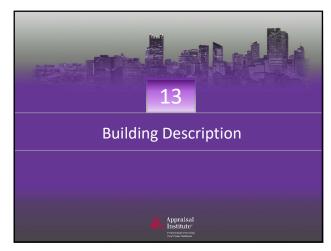


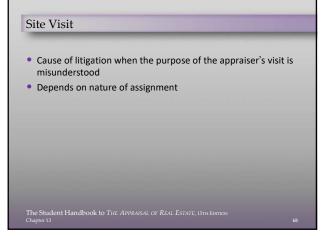


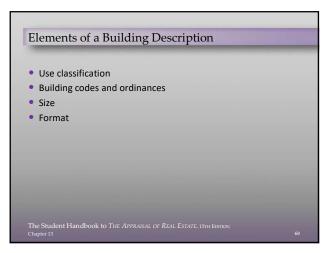
Physical Characteristics of Land, continued Utilities Site improvements On-site improvements: Landscaping, curbs, paving, fences Off-site improvements: Roads, drainage lines, utility hookups The Student Handbook to The Appraisal of Real Espate, 15th Edition

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Physical Characteristics of Land, continued Accessibility Environment Contamination and environmental risk issues Special characteristics of rural, agricultural, or resource land The Student Handbook to The Appraisal of Real Estate, ISTH EDITION Chapter 12

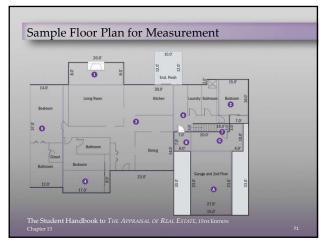






Measuring Buildings Gross living area Gross building area Gross leasable area The Student Handbook to The Appraisal of Real Estate, 15th Edition

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Notes to Instructors Insert pictures in this section as needed. Photos of construction sites with houses or buildings in various stages of completion are useful. Such photos will allow the class to see the points of construction. Because construction is location-specific, local pictures are best. In most cases, pictures can be transferred to PowerPoint using copy-and-paste functions.

Substructure Superstructure Framing Insulation Ventilation Exterior walls and doors Windows, storm windows, and screens Facade Roof and drainage system Chimneys, stacks, and vents The Student Handbook to THE APPRAISAL OF REAL ESTATE, ISTH EDITION

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Interior Description Interior walls, partitions, and doors Interior supports Beams, columns, and trusses Flooring system Ceilings Stairs, ramps, elevators, escalators, and hoists Painting, decorating, and finishing Protection against decay and insect damage Miscellaneous and special features The Student Handbook to The Appraisal of Real Estate, 15th Edmon

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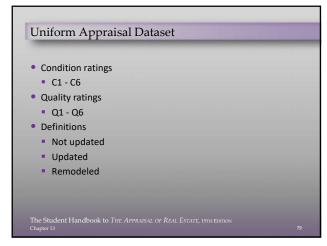
Equipment and Mechanical Systems Plumbing system Heating, ventilation, and air-conditioning systems Electrical systems Miscellaneous equipment Whole building approach The Student Handbook to The Appraisal of Real Estate, 15th Edmon

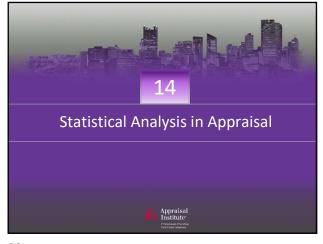
 Formal architecture 		
 Follows historical patt 	erns	
Vernacular architecture		
Local style		
Function over form		

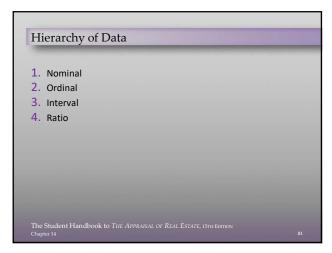
Design and Functional Utility by Property Type Residential Commercial Industrial Buildings on agricultural properties Special-purpose buildings Mixed-use buildings The Student Handbook to THE APPRAISAL OF REAL ESTATE, ISTHEORIDON Chapter 13

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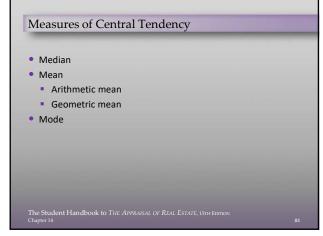
Quality and Condition Survey Quality Cost, durability, and efficiency Condition Wear and tear Items in need of immediate repair Short-lived items Will need replacement at least once Long-lived items Will last full life of building The Student Handbook to THE APPRAISAL OF REAL ESTATE, 15TH EDITION Chapter 13

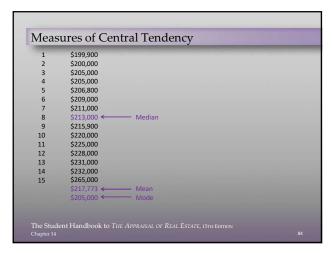




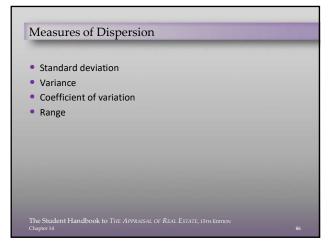


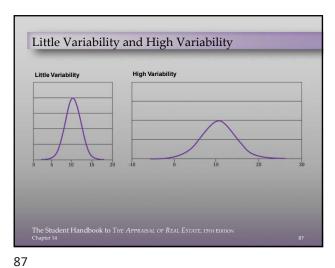
 Population 	n			
 Sample 				
 Paramete 	er			
 Statistics 				
Descri	ptive sta	tistics		
Infere	ntial stati	istics		

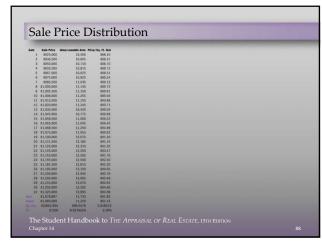


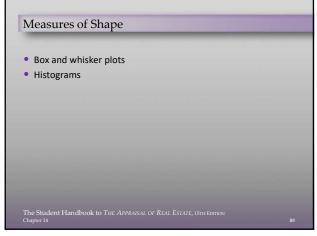


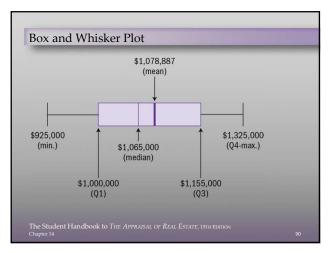
1	\$356,900	
2	\$400,000	
3	\$420,000	
4	\$420,000	
5	\$427,200	
6	\$436,000	
7	\$444,000	
8		an
9	\$463,600	
10	\$480,000	
11	\$500,000	
12	\$500,000	
13	\$524,000	
14	\$528,000	
15	\$660,000	
	\$467,447 Mean \$420,000	
	\$500,000 Mode	
	\$500,000	



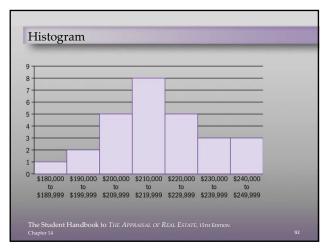








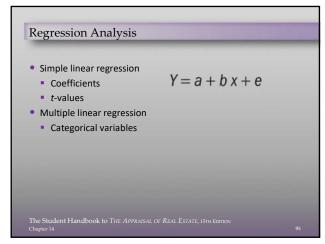
		Proportion of	
	Number of		
Price	Properties	Observations	
\$180,000 to \$189,999	1	0.04	
\$190,000 to \$199,999	2	0.08	
\$200,000 to \$209,999	5	0.20	
\$210,000 to \$219,999	8	0.32	
\$220,000 to \$229,999	5	0.20	
\$230,000 to \$239,999	3	0.12	
\$240,000 to \$249,999	1	0.04	

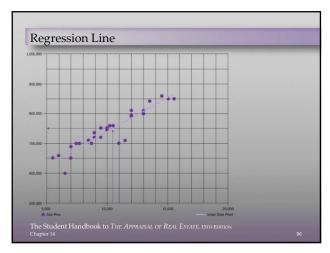


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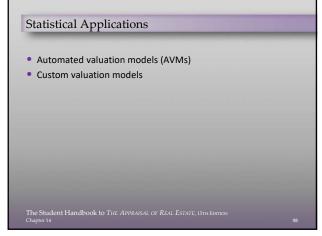
Central Limit Theorem and Inference Confidence intervals 1. True value of a population measure falls within the range of values provided 2. Degree of confidence in first assertion can be set at a desired level The Student Handbook to The Appraisal of Real Estate, 15th Edition Chapter 14 93

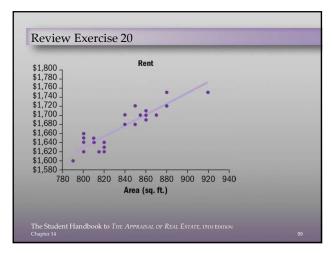
Sale	Sale Price	GLA				
1	\$600,000	6,500				
2	\$650,000	7,000				
3	\$650,000	5,500				
4		6,000				
5		7,000				
6		7,500				
7		8,750				
8		7,750				
9		11,000				
10		8,500				
11		11,500				
12		9,000				
13		9,500				
14		9,000				
15		9,000 10,000				
16		10,000				
17		9,500				
18		10.000				
20		10,000				
25		10,500				
22		12,000				
23		12,000				
24		13,000				
25		13,000				
26		12,000				
27		13,500				
28		15,500				
29		15,000				
30		14.500				
	\$742,916.70	10,141.67				
	8.75%					
	20.169					





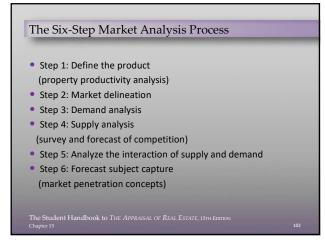
Regression Anal	ysis: C2 versus	C1			
The regression e	equation is				
C2 = 512694 +	- 22.7 C1				
Predictor	Coef	SE Coef	T	P	
Constant	512694	17725	28.92	0.000	
C1	22.701	1.692	13.41	0.000	
S = 24278.7	R-	Sq = 86.5%	R-Sq(adj)	= 86.1%	

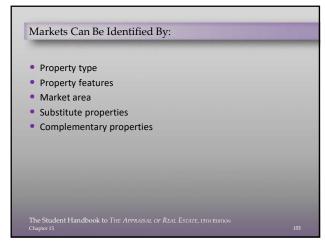




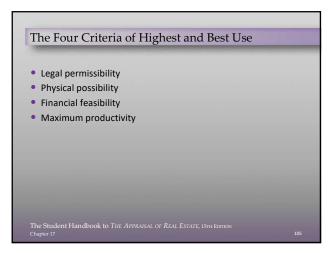










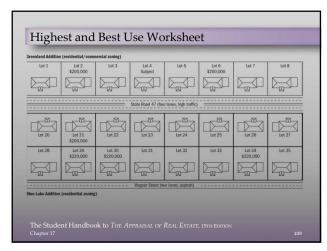


o Perspectives on Highest and Best Use Analysis	
Highest and best use of the site as though vacant	
Highest and best use of the property as improved	
Student Handbook to The Appraisal of Real Estate, 15th Edition let 17	

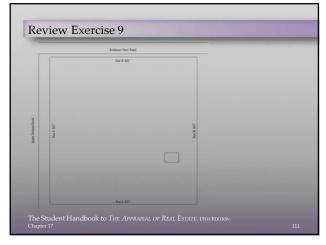
Questions in the Highest and Best Use Analysis of Land as Though Vacant Legal Permissibility Is the proposed use allowable? Physical Possibility Does the proposed improvement fit on the site? Do the topography, soil type, elevation, and location of utilities allow the building to be constructed? Financial Feasibility Is the proposed use profitable? Maximum Productivity Is the proposed use the best use available? The Student Handbook to The Appraisal of Real Estate, Isthe Editorics.

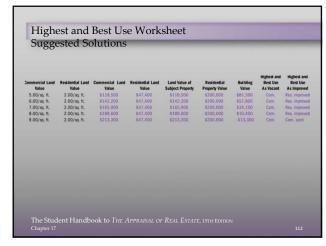
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Alternatives for the Property as Improved Keep the improvements as they are Modify the improvements in some way Demolish the improvements and redevelop the land for some other use The Student Handbook to The Appraisal of Real Estate, 15th Edition Chapter 17 108

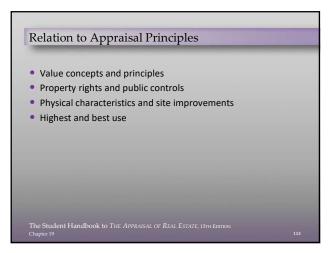


reenland Addition sold for reenland Addition sold for Blue Lake Addition sold fo Blue Lake Addition sold fo Blue Lake Addition sold fo Blue Lake Addition sold fo in the table based on the	\$200,000 to a family the \$200,000. or \$220,000. or \$220,000.					
Blue Lake Addition sold fo Blue Lake Addition sold fo Blue Lake Addition sold fo Blue Lake Addition sold fo	r \$200,000. r \$220,000. r \$220,000.	nat moved in and still i	ives there.			
Blue Lake Addition sold fo Blue Lake Addition sold fo Blue Lake Addition sold fo	ir \$220,000. ir \$220,000.					
Blue Lake Addition sold for Blue Lake Addition sold for	r \$220,000.					
Blue Lake Addition sold fo						
	r \$220,000.					
in the table based on the						
		Land Value of Subject Property	Residential Property Value	Building Value	Best Use As Vacant	Best Use As Improved
2.00/sq. ft						
2.00/sq. ft						-
2.00/sq. ft				10	-	2
2.00/sq. ft	_					
2.00/sq. ft.						
1 11 11 11	and Value Land V 2.00/sq. ft. 2.00/sq. ft. 2.00/sq. ft.	.and Value Land Value Land Value 2.00/sq. ft	.and Value	and Value Land Value Land Value Subject Property Property Value 0.00/sq. ft. 0.00/sq. ft	and Value Land Value Land Value Subject Property Property Value Value 0.00/sq, ft	and Value Land Value Land Value Land Value Subject Property Value Value As Vacant





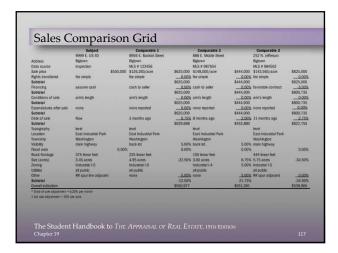




•	•
Sales comparison	
Market extraction	
Allocation	
Land residual analysis	
 Income capitalization techniques 	
 Ground rent capitalization 	
 Subdivision development analysis (DCF analysis) 	

Sales Comparison Technique Identify the highest and best use and other key characteristics of each potential comparable sale to choose the appropriate comparables to use Gather data on sales, listings, offers, and options Identify key similarities and differences between the subject and comparable properties Identify the units of comparison that explain market behavior to use in the analysis Adjust the unit prices of the comparable sales to account for the different characteristics of the land being appraised Form a conclusion of the value of the subject property The Student Handbook to The Appraisal of Real Estate Isin Edinon Chapter 19

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Commonly used to estimate I sales are not available	and values when comparable
Land value is the not result of	
	f subtracting the value of the proach from the sale price of ar

1234 N. Main Street				
Cash equivalent sale pr	ice		\$455,000	
Residence	2,455 sq. ft. @ \$135.00 =	\$331,425		
Basement	1,202 sq. ft. @ \$45.00 =	\$54,090		
Garage	755 sq. ft. @ \$45.00 =	\$33,975		
Porch, patio, deck, etc.		\$35,000		
Landscaping, driveway,	etc.	\$25,000		
Total cost of new impro-	vements	\$479,490		
Total depreciation (all c	auses) -35%	- \$167,822		
Depreciated value of bu	ilding improvements	\$311,669	-\$311,669	
Sale price - value of imp	provements		\$143,332	
6565 N. Audobon Stre	et		-	
Cash equivalent sale pr	ice		\$495,000	
Residence	2,805 sq. ft. @ \$155.00 =	\$434,775		
Basement	1,122 sq. ft. @ \$60.00 =	\$67,320		
Garage	885 sq. ft. @ \$45.00 =	\$39,825		
Porch, patio, deck, etc.		\$55,000		
Landscaping, driveway,	etc.	\$35,000		
Total cost of new impro-		\$631,920		
Total depreciation (all c	auses) -45%	- \$284,364		
Depreciated value of bu	ilding improvements	\$347,556	-\$347,556	
Sale price - value of imp	provements		\$147,444	

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Uses land-to-building or land-to-property-value ratios in improved areas to support a land value in the subject area when no land sales are available Subject and comparable properties must be improved to their highest and best use or this technique is less applicable The ratio from one area and price range is not necessarily transferable to another area or price range The Student Handbook to THE APPRAISAL OF REAL ESTATE, ISTH EDITION Chapter 19.

	Sale 1	Sale 2	Sale 3	Sale 4	
Sale price	\$400,000	\$400,000	\$420,000	\$440,000	
Estimated land value	- 80,000	- 80,000	- 84,000	- 88,000	
Estimated building value	\$320,000	\$320,000	\$336,000	\$352,000	
Land/property ratio	20.00%	18.67%	20.45%	20.00%	

• As an income capitalization technique, land residual analysis isolates income to the land by segregating income from the building from overall income. • As a cost-based technique, land residual analysis subtracts the cost of proposed improvements from the sale price of

comparable properties.

Land Residual Analysis

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Income Capitalization in Land Residual Analysis

• Requires capitalization rates for both land and building, which are difficult to get with similar risk and income patterns

Cost in Land Residual Analysis

- Compares the cost to construct hypothetical improvements with the market value of the proposed property
- Note that market extraction is similar but focuses on comparable properties in the market
- Commonly used in highest and best use analysis

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Income Capitalization Techniques

- Ground rent capitalization
 - Establishes a ratio of income to value in the comparable properties and then uses that ratio for the subject property
 - Can be an excellent method if the market thinks this way
 - Requires very similar expenses and upside potential to be accurate
 - Can be incorrect if the risk is not the same in comparable properties and the subject property

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125

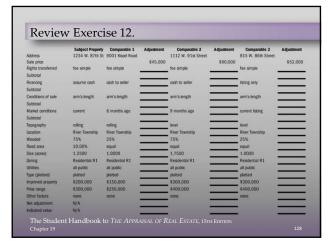
Income Capitalization Techniques, continued

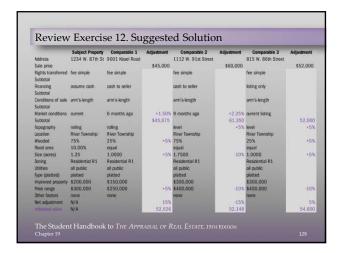
- Subdivision development analysis (DCF analysis)
 - Not used in some markets but applicable in others
 - Assumes land value is based on development potential, not on alternative properties

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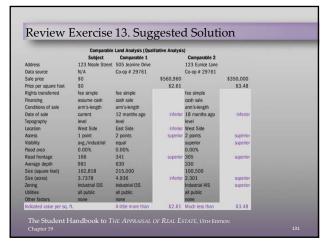
er 19

Real estate taxes \$4,000 \$4,000 \$4,000 \$2,000		- 3		6	5	4	3	2	1	Duarter
Sale once per let		7.5	7.5							
Estimated PGI L106.250 1.106.250 1		\$147.500	\$147.500	\$147.500	\$147.500	\$147.500	\$147.500	\$147.500	\$147.500	
Less estimated expenses	250 \$8.850.00	1.106.250	1.106.250	1.106.250			1.106.250			
Red lettars tases 54,000 54,000 54,000 54,000 52,000										Less estimated expenses
Sales commission (6%) \$68,375 \$66,375 \$46,205 \$44,250 </td <td>\$0 \$1,600,000</td> <td>\$0</td> <td>\$0</td> <td>\$0</td> <td>\$0</td> <td>\$400,000</td> <td>\$400,000</td> <td>\$400,000</td> <td>\$400,000</td> <td>Development costs</td>	\$0 \$1,600,000	\$0	\$0	\$0	\$0	\$400,000	\$400,000	\$400,000	\$400,000	Development costs
Moenting, etc. (4%) \$44.290 <td>000 \$24,000</td> <td>\$2,000</td> <td>\$2,000</td> <td>\$2,000</td> <td>\$2,000</td> <td>\$4,000</td> <td>\$4,000</td> <td>\$4,000</td> <td>\$4,000</td> <td>Real estate taxes</td>	000 \$24,000	\$2,000	\$2,000	\$2,000	\$2,000	\$4,000	\$4,000	\$4,000	\$4,000	Real estate taxes
Interpreneurial incomine (20%) \$221,250 <th< td=""><td>\$75 \$531,000</td><td>\$66,375</td><td>\$66,375</td><td>\$66,375</td><td>\$66,375</td><td>\$66,375</td><td>\$66,375</td><td>\$66,375</td><td>\$66,375</td><td>Sales commission (6%)</td></th<>	\$75 \$531,000	\$66,375	\$66,375	\$66,375	\$66,375	\$66,375	\$66,375	\$66,375	\$66,375	Sales commission (6%)
Total expenses \$735,875 \$735,875 \$735,875 \$735,875 \$333,875 \$333,875 \$333,875 \$333,875 \$333,875 \$333,875 \$772,375	\$354,000	\$44,250	\$44,250	\$44,250	\$44,250	\$44,250	\$44,250	\$44,250	\$44,250	Advertising, etc. (4%)
Net cash flow \$370,375 \$370,375 \$370,375 \$772,375 \$772,375 \$772,375	50 \$1,770,000	\$221,250	\$221.250	\$221,250	\$221,250	\$221,250	\$221,250	\$221,250	\$221,250	Entrepreneurial incentive (20%)
	375 \$4,279,00	\$333,875	\$333,875	\$333,875	\$333,875	\$735,875	\$735,875	\$735,875	\$735,875	fotal expenses
Discounted @ 12% 97.09% 94.26% 91.51% 88.85% 86.26% 83.75% 81.31% 78.94%	75 \$4,571,000	\$772,375		\$772,375	\$772,375	\$370,375	\$370,375	\$370,375	\$370,375	Net cash flow
	94%	78.94%	_81.31%	_83.75%	86.26%	_88,85%	91.51%	94.26%	97.09%	Discounted € 12%
Present value \$359,587 \$349,114 \$338,946 \$329,073 \$666,257 \$646,852 \$628,012 \$609,720		\$609,720	\$628,012	\$646,852	\$666,257	\$329,073	\$338,946			
Present value of land = sum of the present value amounts	\$3,927,56							e amounts	ne present value	Present value of land = sum of the





	Comparabl	e Land Analysis (Qual	itative Analysis	0		
	Subject	Comparable 1	itasis niaija.	Comparable 2		
Address	123 Nicole Street	505 Jeanine Drive		123 Eunice Lane		
Data source	N/A	Co-op # 29761		Co-op # 29761		
Sale price	\$0		\$560,960		\$350,000	
Price per square foot	\$0		\$2.61		\$3.48	
Rights transferred	fee simple	fee simple		fee simple		
Financing	assume cash	cash sale		cash sale		
Conditions of sale	arm's-length	arm's-length		arm's-length		
Date of sale	current	12 months ago		18 months ago		
Topography	level	level		level		
Location	West Side	East Side		West Side		
Access	1 point	2 points		2 points		
Visibility	avg./industrial	equal		superior		
Rood area	0.00%	0.00%		0.00%		
Road frontage	166	341		305		
Average depth	981	630		330		
Size (square feet)	162,818	215,000		100,500		
Size (acres)	3.7378	4.936		2.301		
Zoning	Industrial I3S	Industrial I3S		Industrial I4S		
Utilities	all public	all public		all public		
Other factors	none	none		none		
indicated value per sq. ft.		ATTERES.		111111111		



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The Sales Comparison Approach The historical approach to value. The value of the subject property is derived by comparing it with prior sales of similar properties. This analytical tool can be difficult to prepare but is easily understood. Common sales comparison grids will be introduced and explored.

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Relation to Appraisal Principles Supply and demand Substitution Balance Externalities Market analysis and highest and best use

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Nearly always applicable in appraisals of market value of real property Valid even when buyers are paying for income potential Focuses on sales of comparable properties, but prior sales of the subject property are also evidence of value The Student Handbook to THE APPRAISAL OF REAL ESTATE, 15TH EDMON Chapter 20

Research the market for sales, listings, offerings, and pending sales. Verify that information per the scope of work of the appraisal assignment. Select relevant units of comparison.

- 4. Look for relevant differences in the comparable properties and make adjustments.
- Reconcile the value conclusions into a single point opinion or range of values.

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Researching Transactional Data

- Appraisers need to use discretion when relying on data from a multiple listing service (MLS) or third-party data provider.
- To keep bad data from affecting the analysis, using more data is better than using less.

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Common Units of Comparison

- Price per square foot of gross living area
- Price per square foot of gross building area
- Price per bedroom
- Price per room

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Chapter 20

a shows con	sistency.			
Sale 1	Sale 2	Sale 3	Sale 4	Sale 5
				\$750,000
				80 \$9.375
33,714	50,000	30,470	J7,142	75,575
	Sale 1 \$1,000,000 175 \$5,714	\$1,000,000 \$750,000 175 125	\$1,000,000 \$750,000 \$550,000 175 125 85	\$1,000,000 \$750,000 \$550,000 \$750,000 175 125 85 105

Analyzing and Adjusting Comparable Sales	_
	-
Identification and measurement of adjustments	
Elements of comparison	
Sequence of adjustments	
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Suggested Order of Transactional Adjustments Real property rights conveyed Financing terms Conditions of sale Expenditures made immediately after purchase Market conditions (time) The Student Handbook to The Appraisal of Real Estate, ISTHEORIEN Chapter 20 141



	Subject	Comparable 1	Comparable	2 Comparable 3	
	1597 N. Cathy Street	3579 Eunice Street	1593 N. Jea		
Sale price			\$500,000	\$550.000	\$400.00
Rights transferred	fee sirectio	fee simple	\$0 fee simple	\$0 fee simple	
Subtotal			\$500,000	\$550,000	\$400.00
Financing	cash to seller	contract.	- \$50,000 cash to selle	r \$0 cash to seller	\$
Subtotal			\$450,000	\$550,000	\$400,00
Conditions of sale	ami's length	arm's-length	\$0 arm's length	\$0_arm's-length	
Subtotal			\$450,000	\$550,000	\$400,00
Post-purchase repairs	none needed	none needed	\$0_none needed	f \$0 minor repairs	* \$40.00
Subtotal			\$450,000	\$550,000	\$440,00
Market conditions	now	2 mos.	0.30% 9 mos.	1,30% 3 mos.	0.50
Current, cash-equivalent price			\$451,350	\$557,150	\$442,20
Location	\$100,000	\$165,000	- \$65,000 \$225,000	- <u>5125,000</u> \$78,000	+ \$22.00
Adjusted price			\$386,350	\$432,150	\$464,20
Building design	one story/avg.	one story/avg.	\$0 one story/av		
Const. quality	brick/avg.	brid/avg.	\$0 steel/avg.	\$0 steel/inferior	\$23,210 (5.0)
Improvement age	8	12	\$30,908 (8.0%) 9	\$8,643 (2.0%) 5	- \$27,852 (-6.0)
Improvement condition	average	equal	\$0 equal	\$0 equal	
4bv. gd. bldg. area	5,086	8,000	- \$22,408 (-5.8%) 12,000	\$59,637 (-13.8%) 10,000	- \$45,492 (-9.8)
Fnished office	25.00%	25.00%	\$0 13.95%	\$23,768 (5.5%) 25.00%	5
Freezer/cooler	0	0	\$0.0	\$0.0	
Basement sq. ft.	0	0	\$0.0	\$0.0	
Functional utility	average	average	\$0 average	\$0 average	5
Other	none	none	<u>\$0</u> none	\$0 none	3
Net adjustment			\$8,500 (+ 2,2%) \$394,850	- \$27,226 (~ 6.3%) \$404,924	- \$50,134 (- 10.8) \$414,08

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Reconciling Value Indications in the Sales Comparison Approach The adjusted price is the indicated value of the subject property. The number of comparables required depends on the assignment conditions. The Student Handbook to THE APPRAISAL OF REAL ESTATE, ISTHEORIES.

Questions to Ask in Reconciliation How much evidence of value is available and how much is included? Should comparable listings, pending sales, or expired listings be considered? Should a history of market exposure of the subject property be considered? How many of the available comparable sales are truly comparable? Do the adjustments to the sales or listings represent market reactions? Are the comparable properties used legitimate alternatives to the subject property?

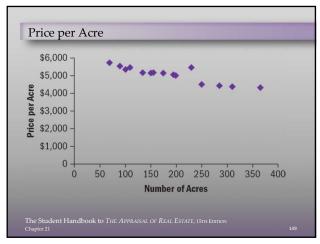
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146



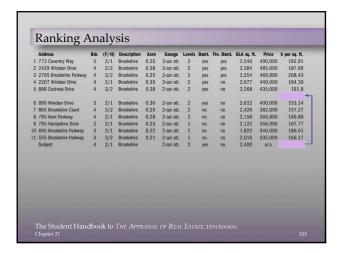
Sale	Price	Acres	Price per Acre	
1	\$400,000	70	\$5,714	
2	\$500,000	90	\$5,556	
3	\$550,000	103	\$5,340	
4	\$600,000	110	\$5,455	
5	\$700,000	135	\$5,185	
6	\$775,000	150	\$5,167	
7	\$805,233	155	\$5,195	
8	\$896,543	175	\$5,123	
9	\$985,700	195	\$5,055	
10	\$1,000,000	200	\$5,000	
11	\$1,256,500	230	\$5,463	
12	\$1,125,890	250	\$4,504	
13	\$1,258,900	285	\$4,417	
14	\$1,358,000	310	\$4,381	
15	\$1,580,000	366	\$4,317	



Depreciate sales comp				suppor	t adj	ustment	rates i	n the
	Size	Cost per		%		\$	Net	\$ per
Area		sq. ft. \$45.00	Cost	Deprec. 6%		Deprec.		sq. ft. \$42.3
Screened porch	300	\$45.00	\$13,500	6%	-	\$810	\$12,690	\$42.3
	Size	Cost per		%		\$	Net	\$ per
Area		sq. ft.	Cost	Deprec.		Deprec.	Value	sq. ft.
Basement	2,000	\$45.00	\$90,000	15%	-	\$13,500	\$76,500	\$38.2
Finishing	1,000	\$50.00	\$50,000	15%	-	\$7,500	\$42,500	\$42.5

F	
Capitalization of Income Differences	
 Gross rent multipliers (GRMs) 	
 Direct capitalization of a single year's income 	
The Student Handbook to The Appraisal of Real Estate, 15th Edition	
Chapter 21	

• D	plativo comparison analysis
	elative comparison analysis
	Narrative discussion of issues, usually just listing the data
	Discussion of what is inferior and what is superior
• Ra	anking analysis
	Placing data in an ordered array
• Pe	ersonal interviews



1.	Property rights conveyed	
2.	Financing terms	
3.	Conditions of sale	
4.	Expenditures immediately after purchase	
5.	Market conditions	
6.	Property adjustments	

\$100,000	\$100,000		
+ (\$100,000 × 0.10)	+ 10,000	Adjustment 1	
- (\$100,000 × 0.10)	- 10,000	Adjustment 2	
+ (\$100,000 × 0.10)	+ 10,000	Adjustment 3	
- (\$100,000 × 0.10)	<u>- 10,000</u>	Adjustment 4	
\$100,000	\$100,000		
\$100,000			
+ (\$100,000 × 0.10)	× 1.10	Adjustment 1	
\$110,000			
- (\$110,000 × 0.10)	× 0.90	Adjustment 2	
\$99,000			
+ (\$99,000 × 0.10)	× 1.10	Adjustment 3	
\$108,900			
- (\$108,900 × 0.10)	× 0.90	Adjustment 4	
\$98,010			

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Transactional Adjustments Real property rights conveyed Life estates Leased fee, leasehold, subleasehold Mineral rights Financing terms: cash equivalency Low interest rate mortgage assumptions Conditional sales contracts Purchase-money mortgages Seller-paid concessions The Student Handbook to THE APPRAISAL OF REAL ESTATE, ISTH EDITION Chapter 21

Transactional Adjustments, continued Conditions of sale Motivated sellers Motivated buyers Expenditures made immediately after purchase Razing a building Replacing a roof covering Replacing carpeting Repainting

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Transactional Adjustments, continued Market conditions Compensate for changes in the market from the date of sale to the effective date of appraisal Make the value opinion equal to the effective date Analyze sales and resales of the same properties The Student Handbook to The Appraisal of Real Estate, ISTH EDITION Chapter 21

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Property Adjustments Location Compensate for differences in the locational attributes of the subject property and the comparables Adjustment can be based on land values Physical characteristics Size of site and building Condition, quality, and age of improvements Property amenities Functional utility The Student Handbook to The Appraisal of Real Estate, 18th Edited.

Economic characteristics	
 More or less rent 	
Higher or lower expenses	
Legal characteristics	
Non-realty components of value	
Personal property	
 Intangible property 	
3 · · · · · · · · · · · · · · · · · · ·	
The Student Handbook to The Appraisal of Real Estate, 15th Edition	
The Student Handbook to The Appraisal of Real Estate, 15th Edition Chapter 21	

1 \$1,597,530 335 489 45,000 2 \$1,358,987 300 410 38,500 3 \$1,258,963 400 400 35,000	t of Land Sq. Ft. of GBA
3 \$1,258,963 400 400 35,000	*
4 \$1,112,598 245 333 32,000	
7 71,112,000 270 000 02,000	
5 \$1,000,000 275 405 29,000	
6 \$987,654 370 415 28,700	
Subject 444 455 28,000	

	Sale Price	Frontage	Lot Depth	Gross Building Area (sq. ft.)	Price per Front Foot	Price per Sq. Ft. of Land	Price per Sq. Ft. of GBA
1	\$1,597,530	335	489		\$4,768.75	\$9.75	\$35.50
2	\$1,358,987	300	410	38,500	\$4,529.96	\$11.05	\$35.30
3	\$1,258,963	400	400	35,000	\$3,147.41	\$7.87	\$35.97
4	\$1,112,598	245	333	32,000	\$4,541.22	\$13.64	\$34.77
5	\$1,000,000	275	405	29,000	\$3,636.36	\$8.98	\$34.48
6	\$987,654	370	415	28,700	\$2,669.34	\$6.43	\$34.41
Subject		444	455	28,000		Rounded to	\$35.00

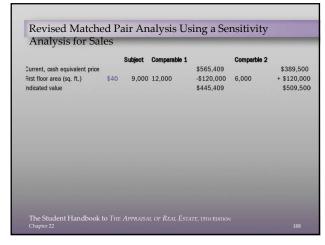
	Price	Frontage	Lot Depth	Gross Building Area (sq. ft.)	Price per Front Foot	Price per Sq. Ft. of Land	Price per Sq. Ft. of GBA
1	\$125,987	200	246	15,000			
2	\$135,897	210	250	18,000			
3	\$145,800	200	285	22,000			
4	\$99,000	195	200	20,000			
5	\$128,589	200	255	24,500			
6	\$175,000	200	339	25,000		5	
Subject		200	275	18,000			

	Sale Price	Frontage	Lot Depth	Gross Building Area (sq. ft.)		Price per Sq. Ft. of Land	Price per Sq. Ft. of GBA
1	\$125,987	200	246	15,000	\$629.94	\$2.56	\$8.40
2	\$135,897	210	250	18,000	\$647.13	\$2.59	\$7.55
3	\$145,800	200	285	22,000	\$729.00	\$2.56	\$6.63
1	\$99,000	195	200	20,000	\$507.69	\$2.54	\$4.95
5	\$128,589	200	255	24,500	\$642.95	\$2.52	\$5.25
5	\$175,000	200	339	25,000	\$875.00	\$2.58	\$7.00
Subject		200	275	18,000		Rounded to	\$2.55



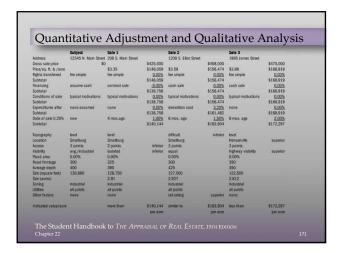
Qua	ntitative Adjustment Example
ad \$1	ree different grids are presented to show how the rate of justment can be extracted. The first grid shows a rate of 0 per square foot, the second shows \$40 per square foot, d the third shows \$30 per square foot.
The Str	ident Handbook to The Appraisal of Real Estate, 15th Edition

Matched	ı raır.	Anary	SIS				
	Subject	Comparable 1		Comparable 2			
Nor			\$510,000		\$400,000		
Property rights	See simple	below market lease	_5.00%	above market lease	5.00%		
Subtotal			\$535,500		\$380,000		
Rearring	cash to seller	cash to neller	0.00%	cash to seller	_0.00%		
Subtotal			\$535,500		\$380,000		
Conditions of sale	typical motivations	motivated seller	3.00%	tpical noticators	0.00%		
Subtotal			\$551,565		\$380,000		
mined ata repairs	none	minor repairs	_2.00%	cone	_0.00%		
Subtotal			\$562,596		\$380,000		
Market conditions	current	one reorth ago	0.50%	five months ago	2.50%		
Turrent, cash equivalent price			\$565,409		\$389,500		
.ocation adjustment	northeast side	northeastside		northeast side			
foring	Commercial-1	Commental-1		Commercial-1			
Site size	20,000 sq. ft.	20,000 sq. ft.		20,000 sq. ft.			
Building design	one story/mg.	one story/avg.		one story/avg.			
Construction quality	masonry/ang,	musonry/avg.		musionny/avg.			
mprovement age	14 years	14 years		14 years			
represent Condition	average	seogs		average			
First floor area (s.g. ft.) 516		12,000	- \$30,000		+ \$30,000		
Second Floor area (sq. ft.)	0	0		0			
KG building arms (sup ft.)	9.000	12,000		6,000			
Finished area	75%	75%		75%			
Savement (sq. ft.)	0	0		0			
Functional obsolescence	typical only	total only		boical only			
20st	none	8000		cone			
setaquistress			138,000		+_\$30,000		
ndoeted value			\$535,409		1419.500		



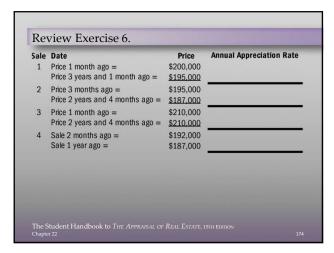
	Subject	Comparabl	e 1	Comparable 2	
			\$565,409		\$389,5
\$30	9,000	12,000	-\$90,000	6,000	\$90,0
			\$475,409		\$479,5
				\$30 9,000 12,000 -\$90,000	\$565,409 \$30 9,000 12,000 -\$90,000 6,000

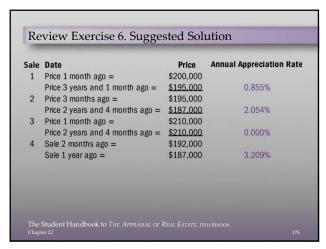
	Subject	Comparable 1		Comparable 2		Comparable 3		
Address	597 E. North St.	579 E. HIII St		593 N. Webb Ave.		571 E. Oak St		
Sale price			\$500,000		\$550,000		\$625,000	
Rights transferred	fee simple	fee simple		fee simple		fee simple		
Financing	cash to seller	contract	superior	cash to seller		cash to seller		
Conditions of sale	typical motivations	typical motivations		typical motivations		typical motivations		
Expend. after purch.	none needed	none needed		none needed		minor repairs	inferior	
Date of sale	today	July		January.		June		
Location/site/view	\$80,000 site	\$65,000 site	inferior	\$80,000 site		\$85,000 site	superior	
Building design	one story/avg.	one story/avg.		one story/avg.		one story/avg.		
Const. quality	steel/average	béck/equal		frame/inferior	infetor	steel/equal		
improvement age	8 years	12 years	inferior	9 years	inferior	5 years	superior	
mprv. condition	average	equal		equal		equal		
Novgrd. bldg. area	6,086 sq. ft.	5,000 sq.ft.	inferior	6,000 sq. ft.		8,000 sq. ft.	superior	
3 as ement area	3,500 sq. ft.	2,000 sq.ft.	inferior	3,500 sq. ft.		4,500 sq. ft.	superior	
Finished basement	2,000 sq. ft.	unfinished	Inferior	2,000 sq. ft.		2,000 sq. ft.		
				finished		finished		
Functional utility	average	average		average		average		
Strage	2-caratt.	2-car att.		2-car att.		2-car att.		
Other	none	none		in-ground pool	superior	none		
Overall comparison			much infedor		nearly equal		much superior	

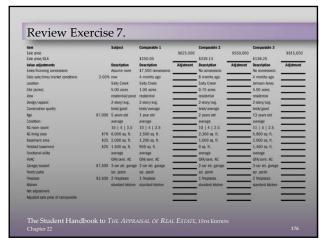


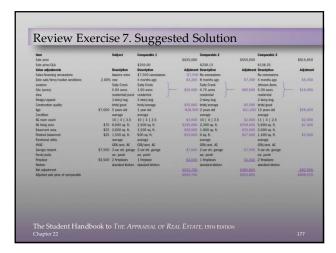
	Subject	Comparable 1	Comparable 2		
Address	12345 N. Main St.	11232 West St.	1233 East St.		
Price per sq. ft. GBA/price		\$163.79	\$475,000 \$125.00	\$525,000	
Rights transferred	fee simple	fee simple	0.00% fee simple	0.00%	
Financing	cash to seller	cash to seller	0.00% cash to seller	0.00%	
Conditions of sale	arm's-length	a mr's length	0.00% arm's-length	0.00%	
Post-purchase repairs	none assumed	none reported	0.00% none reported	0.00%	
Date of sale	current	6 months ago	0.0% 9 months ago	0.0%	
Current, cash-equivalent price	Greenleave Addn	200	\$475,000	\$525,000	
ocation	1.25	Greenleave Addn.	Greenleave Addn. 0.75		
5ite size (acres)		(Sec. 1997)			
Site view	golf course	golf course	residential		
Building design	2-story/average	2-story/average	2-story/average		
Construction quality	wood/frame/avg.	masonry/frame	frame/masonry		
improvement age	23	18	23		
improvement condition	average	average	average		
Room count	9/4/21/2	11/4/31/2	12/4/4%		
4bvground building area @45	2,943	2,900	4,200		
Basement area #20	756	1,200	1,500		
Basement finish area #20	650	1,000	500		
Functional obsolescence	average	average	average	_	
Jarage/parking	3-car att. garage	3-car att. garage	4-car att. garage	_	
Viscelaneous	imgation	equal	egual		
Porches, patios, etc.	enclosed porch/deck	none	equal		
Features	standard	standard	standard		
Fireplaces	I freplace	1 fireplace	1 freplace		
Vet adjustment					
ndicated value		2			

Review Ex							
	Subject	Comparable 1		Comparable 2			
Address	12345 N. Main St.	11232 West St.	1232222	1233 East St.	122	22.000	
Price per sq. ft. GBA/price		\$163.79	\$475,000		\$5	25,000	
Rights transferred	fee simple	fee simple		fee simple		0.00%	
Financing	cash to seller	cash to seller		cash to seller		0.00%	
Conditions of sale	arm's-length	arm's-length		arm's-length		0.00%	
Post-purchase repairs	none assumed	none reported		none reported		0.00%	
Date of sale	current	6 months ago		9 months ago	-	0.0%	
Current, cash-equivalent price			\$475,000	200000000000000000000000000000000000000	\$50	25,000	
Location	Greenleave Addn.	Greenleave Addn.		Greenleave Addn.			
Site size (acres)	1.25	1	+ 10,000		+	15,000	
Site view	golf course	golf course		residential		10,000	
Building design	2-story/average	2-story/average		2-story/average			
Construction quality	wood/frame/avg.	masonry/frame		frame/masonry	3.74	10,000	
Improvement age	23	18	- 10,000				
improvement condition	average	average		average			
Room count	9/4/2%	11/4/3%	- 5,000	12/4/4%		10.000	
Abvground building area @45		2,900		4,200		55.000	
Basement area @20	756	1,200	- 10,000		(0)	15,000	
Basement finish area @20	650	1,000	- 5,000		*	5,000	
Functional obsolescence	average	average		average			
Garage/parking	3-car att. garage	3-car att. garage		4-car att. garage		10,000	
Miscellaneous	imgation	equal		equal		_	
Porches, patios, etc.	enclosed porch/deck		+ 20,000			_	
Features	standard	standard		standard			
Fireplaces	1 fireplace	1 fireplace	-	1 fireplace	_	Mary Control	
Net adjustment			- 10,000			70,000	
indicated value			\$465,000		54	55,000	



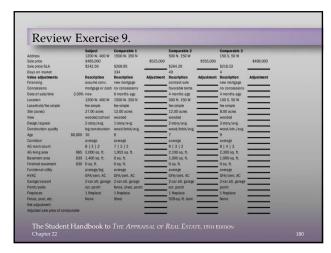


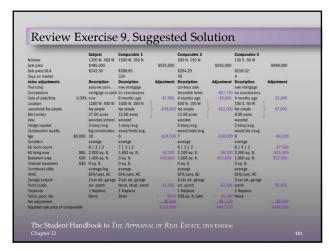


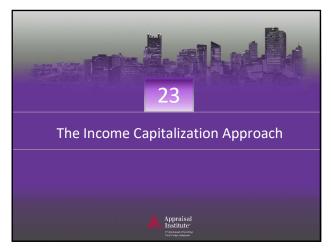


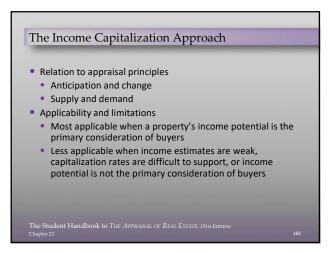
tem		Subject	Comparable 1		Comparable 2		
Sale Price		577		\$375,000		\$425,000	
Sate price/GLA			\$375.00		\$191.44		
falue adjustments		Description	Description	Adjstment		Adjstment	
Sales-Financing concess		Assume none	No concessions		No concessions		
Date of sale/time	3.00%	now.	2 months ago		4 months ago		
Location		Palmer Addition	Palmer Addition		Palmer Addition		
Site (acres)		0.33 acres	0.33 acres		0.33 acres		
riew		residential	residential		residential		
Design/appeal		bi-level/avg.	1-story/avg.		2-story/avg		
Construction quality		brick/average	brick/average		brick/average		
1ge	\$2,500	32	40		24		
Condition		average	average		average		
4G room count		5 3 2	6 3 2		9 4 2		
4G living area	\$25	1,000 sq. ft.	1,000 sq. ft.		2,220 sq. ft.		
Basement area	520	1,000 sq. ft.	1,000 sq. ft.		0 sq. ft.		
Finished basement	\$22	1,000 sq. ft.	0 sq. ft.		0 sq. ft.		
Functional utility		average	average		average		
HVAC		GFA/cent AC	GFA/cent. AC		GFA/cent AC		
Energy efficiency		standard	standard		standard		
Barage/carport		2-car att. garage	2-car att. garage		2-car att. garage		
Porch/patio		deck	deck		deck		
Fireplace		1 frephice	1 freplace		1 freplace		
Kitchen		standard kitchen	standard kitchen		standard kitchen	0 0	
Fence/pool		none	none		none		
Vet adjustment							
Adjusted sale price of co	omnambi			$\overline{}$			

Item	Subject	Comparable 1		Comparable 2		
Sale Price	100000		\$375,000		\$425,000	
Sale price/GLA		\$375.00		\$191.44		
Value adjustments	Description	Description	Adistment	Description	Adistment	
Sales-Financing concessions	Assume none	No concessions	100000000000000000000000000000000000000	No concessions	200	
Date of sale/time 3.005	5 now	2 months ago	\$1,900	4 months ago	\$4,300	
Location	Palmer Addition	Palmer Addition		Palmer Addition		
Site (acres)	0.33 acres	0.33 acres		0.33 acres		
View	residential	residential		residential		
Design/appeal	bi-level/avg.	1-story/avg		2-story/avg		
Construction quality	brick/average	brick/average		brick/average		
Age \$2,500	32	40	\$20,000	24	-\$20,000	
Condition	average	average		average		
AG room count	5 3 2	6 3 2		9 4 2		
AG living area \$25	1,000 sq. ft.	1,000 sq. ft.		2,220 sq. ft.	-\$30,500	
Basement area \$20	1,000 sq. ft.	1,000 sq. ft.		0 sq. ft.	\$20,000	
Finished basement \$22	1,000 sq. ft.	0 sq. ft.	\$22,000	0 sq. ft.	\$22,000	
Functional utility	average	average		average		
HVAC	GFA/cent. AC	GFA/cent AC		GFA/cent AC		
Energy efficiency	standard	standard		standard		
Garage/carport	2-car att. garage	2-car att. garage		2-car att. garage		
Porch/patio	deck	deck		deck		
Fireplace	1 fireplace	1 fireplace		1 fireplace		
Kitchen	standard kitchen	standard kitchen		standard kitchen		
Fence/pool	none	none		none		
Net adjustment			\$43,900		_5(4.200)	
Adjusted sale price of comparat	Ne:		\$418,900		\$420,800	

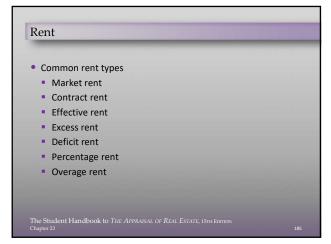


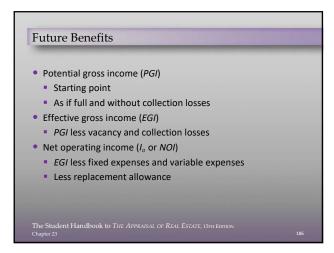






 Type 	es of leases					
• Fl	at rental leas	e				
• V	ariable rate le	ease				
St	tep-up or step	o-down le	ease			
• Le	ease with ann	ual increa	ase			
• R	evaluation lea	ase				
• Pe	ercentage lea	se				
• Ехре	enses in lease	S				
• G	ross lease					
• N	et lease					
• Tr	riple net lease	2				



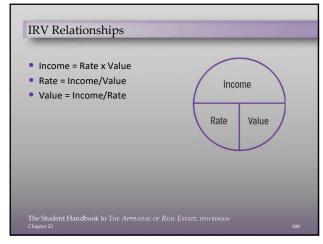


	income – Also called equity dividend, equity cash flow
	me to the equity after debt service (I_i) divided by ty holder's investment (V_F)
Reversi	on – Return of the investment
Som	etimes it is nothing
Som	etimes it is a meaningful amount

Potential gross income (PGI)	25,000 sq. ft. @ \$19.00	\$475,000	
Vacancy and collection loss	5%	(23,750)	
Effective gross income (EGI)		\$451,250	
Estimated annual expenses			
Property taxes	\$45,000		
Property insurance	8,500		
Repairs & maintenance	35,000		
Management	22,500		
Utilities	49,000		
Reserve for new roof covering			
(\$25,000@1/20)	1,250		
Reserve for parking lot resurface			
(\$12,000@1/15)	+800		
Total expenses	\$162,050	(162,050)	
Net operating income		\$289,200	

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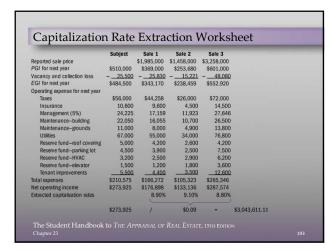
Operating Expenses Necessary to maintain the property Debt service not included Fixed expenses – do not vary with occupancy Variable expenses – vary with occupancy Replacement allowance – accounts for large expenditures in the future The Student Handbook to THE APPRAISAL OF REAL ESTATE, 15TH EDITION Chapter 23



Rates of Return on and return of capital Return on an investment is like the interest on a mortgage Return of an investment is like the principal payments on a mortgage Income rates Overall capitalization rate (R_o) – Ratio of a single year's income (periodic) to the sale price or value (lump sum) Net income multiplier – Reciprocal of overall capitalization rate; known in the stock market as price-earnings ratio

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Discount rates Internal rate of return (IRR) — Rate of return on the investment considering the price paid for the investment, periodic cash flows, and the reversion Overall yield rate — Rate of return including debt and equity Equity yield rate — Rate of return from the perspective of the equity investor, i.e., the rate of return on the amount paid as a down payment from periodic income after debt service and including the reversion after debt has been paid off The Student Handbook to THE APPRAISAL OF REAL ESTATE, ISTHEORIES.



				For reversion value only			
	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	
Tenant 1	\$72,000	\$72,000	\$72,000	\$84,000	\$84,000	\$84,000	
Tenant 2	66,144	66,144	66,144	66,144	66,144	66,144	
Tenant 3	51,600	53,000	60,000	60,000	60,000	60,000	
Tenant 4	14,400	18,000	19,200	19,200	19,200	19,200	
Tenant 5	27,780	27,780	27,780	27,780	27,780	30,558	
Tenant 6	28,800	24,000	33,600	_33,600	33,600	33,600	
Potential gross income	260,724	260,924	278,724	290,724	290,724	\$293,502	
Vacancy and collection (4%)	- 10,429	10.437	- 11.149	- 11.629	- 11.629	11,740	
Effective gross income	\$250,295	\$250,487	\$267,575	\$279,095	\$279,095	\$281,762	
All expenses	- 55.000	56,650	58.350	- 60.100	- 61.903	- 63.760	
Net operating income	\$195,295	\$193,837	\$209,225	\$218,995	\$217,192	\$218,002	
Reversion (10%)	Last year's	s income divide	ed by the capit	talization rate	\$2,158,366		
Cash flow	\$195,295	\$193,837	\$209,225	\$218,995	\$2,375,558		
Discounted at 9%	× 91.74%	× 84.17%	× _ 77.22%	× _ 70.84%	×64.99%	Total	
Present values	\$179,164	\$163,153	\$161,564	\$155,136	\$1,543,875	\$2,202,891	

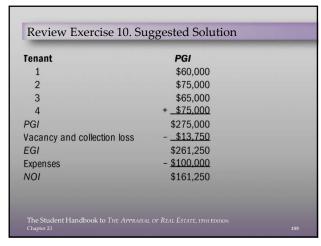
Estimating Rates	
• Risk	
 A significant factor because risk is a primary compor the yield rate 	ent of
 A risky investment requires a higher return than a le investment 	ss risky
Investment-specific	
The Student Handbook to THE APPRAISAL OF REAL ESTATE, 15TH EDITION	
Chapter 23	

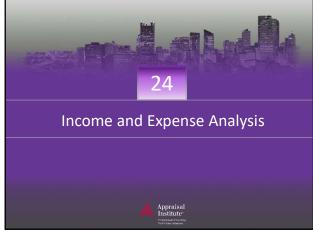
Inflation Also a factor in the yield rate. The change in the buying power of the currency will affect the investment criteria. Unfortunately, almost all competing investments suffer under the same inflation rate. Therefore, competition will not allow the investor to adjust for this factor. Investors may want higher yields during high inflation periods, but the alternatives may not allow it.

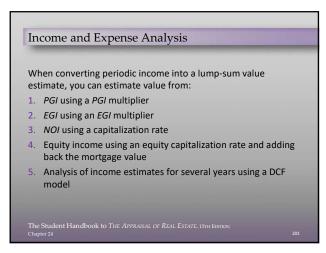
196

197

Direct Capitalization, Yield Capitalization, and Discounting Compared If income is level and the data is good, direct capitalization is easy and accurate. If income is irregular or data is hard to obtain, yield capitalization will work better. The discounted cash flow model (i.e., yield capitalization) essentially asks, "How much do I get and when do I get it?" The Student Handbook to The Appeals AL OF REAL ESTATE, ISTHEDITION Chapter 23





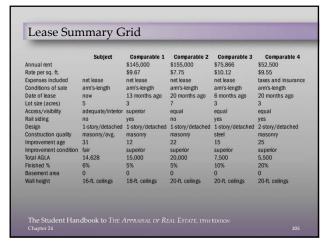


essee and lessor are typically motivated Both parties are well-informed A reasonable time is allowed for exposure
•
reasonable time is allowed for exposure
he rent is in terms of cash in US dollars
he rental amount represents normal consideration for th
property leased, unaffected by special fees

Income and Expense Data Rent Rent concessions Division of expenses Expense stop and expense cap clauses Escalation and expense recovery clauses Purchase options Escape, kick-out, cotenancy, and buyout clauses Continued occupancy clauses Tenant improvements Noncompete, empty store, and exclusive use clauses The Student Handbook to THE APPRAISAL OF REAL ESTATE, 15TH EDITION

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Lease Terms Date of lease Description of the leased premises Lease terms, rental rate, and payment Tenant-installed trade fixtures Revaluation clauses Signage The Student Handbook to The Appraisal Of Real Estate, 15th Edition Chapter 24 204



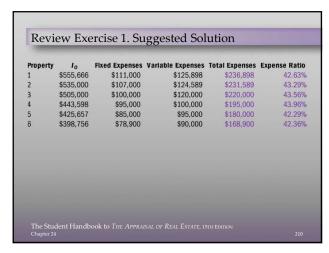
Developing Reconstructed Operating Statements Estimating PGI From comparable leases From the current leases on the subject property From the subject property's history Estimating vacancy and collection loss From comparable properties From the subject property's history

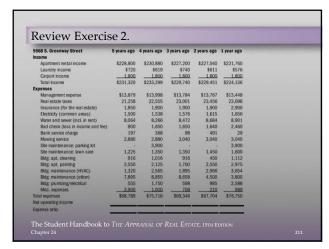
206

Developing Reconstructed Operating Statements, continued • Estimating operating expenses • From comparable properties • From subject's history • Estimating replacement allowance using contractors' estimates • Estimating tenant improvement expenses The Student Handbook to The Appraisal Of Real Estate, 15th Edition Chapter 24

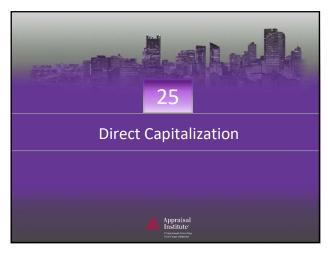
continued	
Calculating net operating income	
Additional calculations	
 Estimating mortgage debt service 	
Estimating equity income	
Estimating expense and income ratios	
The Student Handbook to The Appraisal of Real Estate, 15th Edition	

Property	10	Fixed Expenses	Variable Expenses	Total Expenses	Expense Ratio
1	\$555,666	\$111,000	\$125,898		589
2	\$535,000	\$107,000	\$124,589		
3	\$505,000	\$100,000	\$120,000		
4	\$443,598	\$95,000	\$100,000		
5	\$425,657	\$85,000	\$95,000		
6	\$398,756	\$78,900	\$90,000		

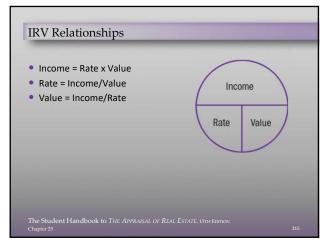


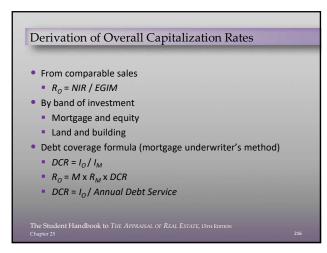


9568 S. Greenway Street	5 years ago	4 years ago	3 years ago	2 years ago	1 year ago	
Income						
Apartment rental income	\$228,800	\$230,880	\$227,200	\$227,040	\$221,760	
Laundry income	720.00	619.00	740.00	611.00	576.00	
Carport income	1,800	1,800	1,800	1,800	1,800	
Total income	231,320	233,299	229,740	229,451	224,136	
Expenses						
Management expense	13,879	13,998	13,784	13,767	13,448	
Real estate taxes	21,258	22,555	23,001	23,456	23,698	
Insurance (for the real estate)	1,850	1,900	1,900	1,900	2,900	
Electricity (common areas)	1,500	1,538	1,576	1,615	1,656	
Water and sewer (incl. in rent)	8,064	8,266	8,472	8,684	8,901	
Bad check (loss in income and fee)	800	1,650	1,650	1,640	2,460	
Bank service charge	197	368	98	491	29	
Mowing service	2,880	2,880	3,040	3,040	3,040	
Site maintenance: parking lot		3,900			3,900	
Site maintenance: lawn care	1,225	1,350	1,350	1,450	1,600	
Bldg: apt. cleaning	916	1,016	916	450	1,112	
Bldg: apt. painting	2,550	2.125	1,700	2,550	2.975	
Bldg: maintenance (HVAC)	1,320	2,565	1,895	2,966	3,654	
Bldg: maintenance (other)	7,895	8,855	8,658	4,500	3,800	
Bldg: plumbing/electrical	555	1,750	598	985	2,588	
Misc. expenses	3,900	1.000	708	210	989	
fotal expenses	\$68,789	\$75,716	\$69,346	\$67,704	\$76,750	
Net operating income	\$162,531	\$157,583	\$160,394	\$161,747	\$147,386	
Expense ratio	29.70%	32.50%	30.20%	29.50%	34.20%	



Capitalization Rates	
Cupitunzation rates	
The ratio of the sale price to the expected net income for next year	r the
May be extracted from comparable sales	
Other methods can be used to support capitalization rate	es
The Student Handbook to The Appraisal of Real Estate, 15th Edition Chapter 25	





$M^* \times R_M =$	Weighted Mortgage Amount	
$(1-M) \times R_E =$	+ Weighted Equity Amount	
	R ₀	
Mortgage ratio		
Keystrokes	Output	
25 g n	300.000000	
10 9	0.833333	
1 PV	1.000000	
0 FV	0.000000	
PMT	-0.009087	
$R_M = PMT \times 12$:		
CHS 12 X	0.109040	
0.75 × 0.10904	= 0.08178	
0.25 × 0.13000	= + 0.03250	
	0.11428 or 11.428%	
	0.11420 01 11.42070	

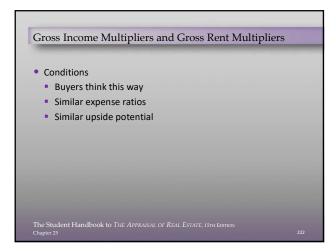
	$L \times R$	=	Weighted Mortgage Amount	
	$B \times R_B$	=+	Weighted Equity Amount	
			$R_{\mathcal{O}}$	
.75 × (0.1300	=	0.0975	
.25 × (0.0900	=+	0.0225	
			0.1200 or 12%	

Debt Coverage Formula	
$R_0 = M \times R_M \times DCR$	
$R_O = 0.75 \times 0.10797 \times 1.2$	
$R_0 = 0.09717 \text{ or } 9.717\%$	
\$100,000/0.09717 = \$1,029,124	
The Student Handbook to The Appraisal of Real Estate, 15th Edition Chapter 25	

Building residual technique	
Land residual technique	
Equity residual technique	
Mortgage residual technique	
Leased fee and leasehold residual technique	

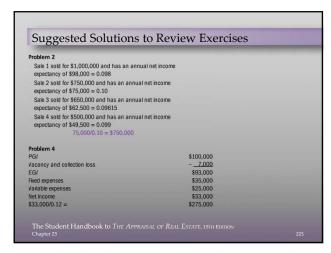
Residual Techniques The subject has a NOI of \$45,000/year. The V_L is \$95,000. The R_L is 9%, and the R_B is 12%. What is the property value? \$95,000 $(V_L) \times 0.09 (R_L) = \$8,550 (I_L)$ \$45,000 $(NOI) - \$8,550 (I_L) = \$36,450 (I_B)$ \$36,450 $(I_B) / 0.12 (R_B) = \$303,750 (V_B)$ \$303,750 $(V_B) + \$95,000 (V_L) = \$398,750 (V_O)$

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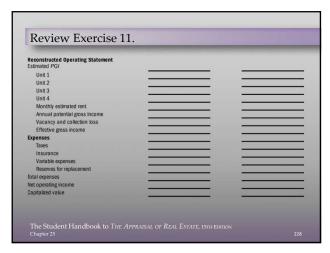
	Sale and F	Rent Comparable Worksh	eet	
Comparable	Sale Price	Gross Rent Estimate	GRM	
1	\$280,000	\$2,500		
2	\$320,000	\$2,900		
3	\$305,000	\$2,750		
4	\$275,000	\$2,500		
5	\$330,000	\$2,900		
6	\$325,000	\$2,900		
7	\$300,000	\$2,700		
8	\$298,000	\$2,700		
9	\$285,000	\$2,500		
10	\$290,000	\$2,750	-	
Average				

Comparable	Sale Price	Gross Rent Estimate	GRM	
1	\$280,000	\$2,500	112.00	
2	\$320,000	\$2,900	110.34	
3	\$305,000	\$2,750	110.91	
4	\$275,000	\$2,500	110.00	
5	\$330,000	\$2,900	113.79	
6	\$325,000	\$2,900	112.07	
7	\$300,000	\$2,700	111.11	
8	\$298,000	\$2,700	110.37	
9	\$285,000	\$2,500	114.00	
10	\$290,000	\$2,750	105.45	
Average	\$300,800	\$2,710	111.00	
The market va	lue of the su	bject property is		
	\$2,750 × 11	11.00 = \$305,250		

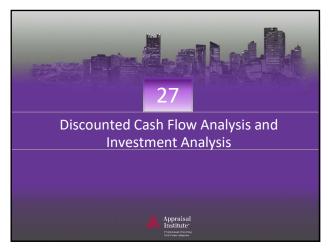


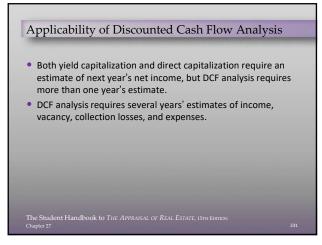
3. a) 0.0514		10. d) \$1,500,000		
R _a = 35,000/400,000 = 0.0875		0.75 × 0.10484 =	0.07863	
$R_{u} = PMT \times 12$		0.25 × 0.055 =	0.01375	
Term:	25 9 n		0.09238	
Mortgage rate:	9.75 9 1	140,000/0.09238 =	\$1,515,480	
Present value of \$1	1 CHS PV		\$1,500,000 (rounded)	
Future value of \$0	0 FV	Pages 463-465		
Solve for [PMT] =	0.008908			
$R_u = PMT \times 12 = 0.1069$				
$R_s = \{R_n - (M \times R_n)\}/(1 - M)$				
= [0.0875 - (0.65 × 0.1069)]/(1	- 0.65)			
= 0.0515				
Pages 463-464				
3. a) \$1,300,000				
NOI = \$150,0				
550,000 (V _i) × 0.0975 = - 53,6	25 (I _i)			
96,3	75 (1,)			
	35 (V _a)			
786,735 + 550,000 = \$1,336,7				
	00 (rounded)			
Pages 468-469				

	PGI	EGI	NOI	Sale Price	R_o
Sale 1	\$69,120	\$65,664	\$43,464	\$525,000	8.28%
Sale 2	\$60,840	\$57,798	\$37,548	\$450,000	8.34%
Sale 3	\$59,940	\$56,943	\$37,143	\$435,000	8.54%
Sale 4	\$59,400	\$56,430	\$37,080	\$465,000	7.97%
risulli,				solution. Thei ne and exper	



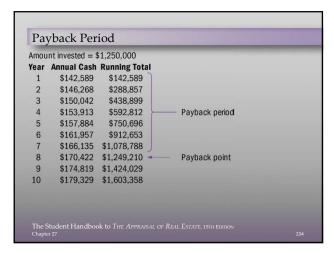
Estimated PGI			
Unit 1	\$1,455		
Unit 2	1,500		
Unit 3	1,350		
Unit 4	_1,305		
Monthly market rent	\$5,610		
Annual potential gross income		\$67,320	
Vacancy and collection loss	5.00%	(\$3,366)	
Effective gross income		\$63,954	
Expenses			
Taxes	\$8,181		
Insurance	\$6,600		
Variable expenses	\$6,000		
Reserves for replacement	<u>\$-</u>		
	\$20,781	(\$20,781)	
Net operating income		\$43,173	
	\$43,173/8.00%	\$539,662	
		\$540,000	
		(rounded)	





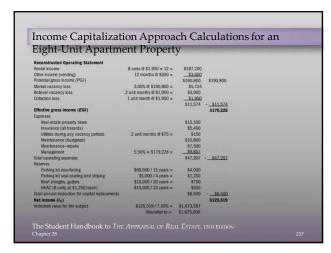
iscount rat	e = 8%					
ash Flow			Discount Factor		Present Value	
0	-\$550,000*			=	-\$550,000	
1	\$35,000			=	\$32,407	
2	\$40,000			=	\$34,294	
3	\$45,000			=	\$35,722	
4	\$50,000			=	\$36,752	
5	\$51,000			=	\$34,710	
6	\$56,000			=	\$35,290	
7	\$60,000			=	\$35,009	
8	\$61,000			=	\$32,956	
9	\$64,000			=	\$32,016	
10	\$65,000			=	\$30,108	
11	\$49,000			=	\$21,015	
12	\$54,000			=	\$21,444	
13	\$55,000	×	0.367698	=	\$20,223	
14	\$60,000	×	0.340461	=	\$20,428	
14	\$625,000 [†]	×	0.340461	=	\$212,788	
et present Acquisition Reversion	value of the in price	ves	stment		\$85,162	

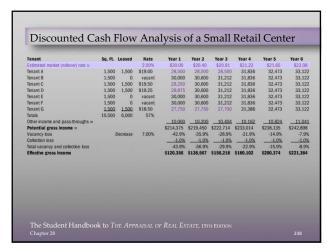
RR :	= 0.0973208					
ear	Cash Flow		Discount Factor		Present Value	
0	-\$550,000	×	1.000000	=	-\$550,000	
1	\$35,000	×	0.911311	=	\$31,896	
2	\$40,000	×	0.830487	=	\$33,219	
3	\$45,000	×	0.756831	=	\$34,057	
4	\$50,000	×	0.689708	=	\$34,485	
5	\$51,000	×	0.628539	=	\$32,055	
6	\$56,000	×	0.572794	=	\$32,076	
7	\$60,000	×	0.521993	=	\$31,320	
8	\$61,000	×	0.475698	=	\$29,018	
9	\$64,000	×	0.433508	=	\$27,745	
10	\$65,000	×	0.395061	=	\$25,679	
11	\$49,000	×	0.360023	=	\$17,641	
12	\$54,000	×	0.328093	=	\$17,717	
13	\$55,000	×	0.298994	=	\$16,445	
14	\$60,000	×	0.272477	=	\$16,349	
14	\$625,000	×	0.272477	=	\$170.298	
let p	resent value o	of t	he investment		\$0	

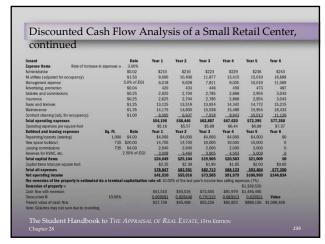


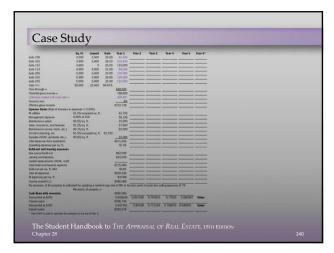
Disco	ount	rate = 8%						
Purc	nase	price = \$1,2	250,000					
Year	1	Cash flow	\$89,000	×	0.9259259	=	\$82,407	
Year	2	Cash flow	\$97,500	×	0.8573388	=	\$83,591	
Year	3	Cash flow	\$103,300	×	0.7938322	=	\$82,003	
Year	4	Cash flow	\$109,800	×	0.7350299	=	\$80,706	
Year	5	Cash flow	\$114,000	×	0.6805832	=	\$77,586	
Year	6	Cash flow	\$116,300	×	0.6301696	=	\$73,289	
Year	7	Cash flow	\$118,650	×	0.5834904	=	\$69,231	
Year	8	Cash flow	\$119,850	×	0.5402689	=	\$64,751	
Year	9	Cash flow	\$121,350	×	0.5002490	=	\$60,705	
Year	10	Cash flow	\$123,850	×	0.4631935	=	\$57,367	
	10	Reversion	\$1,548,125	×	0.4631935	=	\$717.081	
Sum	of t	ne present va	lues of the CFs				\$1,448,717	
Profi	abil	ity index = \$1	1,448,717/\$1,25	50.0	00 = 1.16			

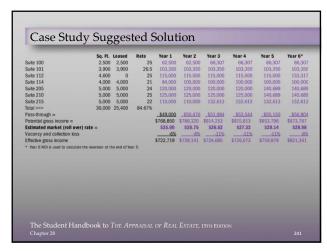




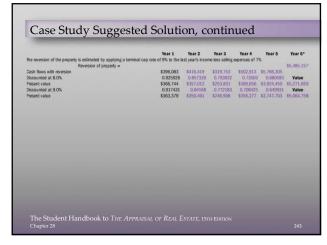








penses = 3.0%) 0/occupied sq. ft. % of EG/ 0/sq. ft. 5/sq. ft. 5/sq. ft. 0/occupied sq. ft.		\$722,719 \$42,750 \$36,136 \$15,000 \$37,500 \$22,500 \$42,750 \$15,000	\$739,141 \$44,033 \$36,957 \$15,450 \$38,625 \$23,175 \$44,033	\$724,685 \$42,966 \$36,234 \$15,914 \$39,784 \$23,870 \$42,966	\$726,073 \$44,255 \$36,304 \$16,391 \$40,977 \$24,586	\$759,879 \$45,583 \$37,994 \$16,883 \$42,207 \$25,324	\$49,559 \$41,06 \$17,389 \$43,47
0/occupied sq. ft. % of EGI 0/sq. ft. 5/sq. ft. 5/sq. ft. 0/occupied sq. ft.		\$36,136 \$15,000 \$37,500 \$22,500 \$42,750	\$36,957 \$15,450 \$38,625 \$23,175 \$44,033	\$36,234 \$15,914 \$39,784 \$23,870	\$36,304 \$16,391 \$40,977	\$37,994 \$16,883 \$42,207	\$41,06 \$17,38
% of EG/ D/sq. ft. 5/sq. ft. 5/sq. ft. D/occupied sq. ft.		\$36,136 \$15,000 \$37,500 \$22,500 \$42,750	\$36,957 \$15,450 \$38,625 \$23,175 \$44,033	\$36,234 \$15,914 \$39,784 \$23,870	\$36,304 \$16,391 \$40,977	\$37,994 \$16,883 \$42,207	\$41,06 \$17,38
0/sq. ft. 5/sq. ft. 5/sq. ft. 0/occupied sq. ft.		\$15,000 \$37,500 \$22,500 \$42,750	\$15,450 \$38,625 \$23,175 \$44,033	\$15,914 \$39,784 \$23,870	\$16,391 \$40,977	\$16,883 \$42,207	\$17,38
5/sq. ft. 5/sq. ft. 0/occupied sq. ft.		\$37,500 \$22,500 \$42,750	\$38,625 \$23,175 \$44,033	\$39,784 \$23,870	\$40,977	\$42,207	
5/sq. ft. 0/occupied sq. ft.		\$22,500 \$42,750	\$23,175 \$44,033	\$23,870			
D/occupied sq. ft.		\$42,750	\$44,033				\$26.084
					\$44,255	\$45,583	\$49,55
oysq. x.		210,000		\$15.914	\$16.391	\$16.883	\$17.38
		\$211.636	\$15,450	\$27.648	\$223,160	\$230,457	\$244,524
		\$7.05	\$7.26	\$7.25	\$7.44	\$7.68	\$8.1
		97.00	41.20	97140	21244	27.00	40.11
		\$92,000	\$60,000	\$112,500	\$0	\$150,000	\$46,000
		\$23,000	\$20,000	\$39,784	\$0	\$56,275	51
		\$0	\$25,000	\$35,000	\$0	\$42,000	
		\$115,000	\$105,000	\$187,284	\$0	\$248,275	\$46,000
		\$3.83	\$3.50	\$6.24	\$0.00	58.28	\$1.5
		\$326,636	\$322,722	\$404,932	5223,160	\$478,731	\$290,520
		\$10.89	\$10.76	\$13.50	\$7.44	\$15.96	\$9.60
		\$396,083	\$416,419	\$319,753	\$502,913	\$281,147	\$530,823
ed by applying a terminal	cap rate of	9% to the last y	ear's income le	ss selling exper	ises of 7%		
rsion of property =							\$5,485,15
			\$3.83 \$326,636 \$10.89 \$396,083 d by applying a terminal cap rate of 9% to the last y	\$3.83 \$3.50 \$326,636 \$322,722 \$10.89 \$10.76 \$396,083 \$416,419 d by applying a terminal cap rate of 9% to the last year's income le	\$3,83 \$3,50 \$6,24 \$326,636 \$322,722 \$404,932 \$10,99 \$10,76 \$13,50 \$396,083 \$416,419 \$319,753 \$10 ya pplying a terminal cap rate of 97 to the last years income less seding experience.	\$3,83 \$3.50 \$5.24 \$5.00 \$326,606 \$322,722 \$404,932 \$223,180 \$10.09 \$10.07 \$13.50 \$74.4 \$306,003 \$410.419 \$319,753 \$502,913 \$10 yapolying a terminal cap rate of 97 % to least year's excome less stelling expenses of 7%	\$3.83 \$3.50 \$5.74 \$0.00 \$5.28 \$20.605 \$32.605 \$32.605 \$32.722 \$404.932 \$223,100 \$476.731 \$10.89 \$510.69 \$13.00 \$77.4 \$15.06 \$10.89 \$10.89 \$13.07 \$33.00 \$27.10 \$476.731 \$10.99 \$10.91 \$13.00 \$13.00 \$10.91 \$1



APPRAISER CERTIFICATION BOARD

November 9, 2023

Agenda Item 4

(b) Nevada Chapter Appraisal Institute-2024 LV Market Symposium



Nevada Department of Taxation Property Tax Appraiser Continuing Education New Course Application

Return this form to:
Division of Local Government Services
1550 College Parkway
Carson City, Nevada 89706

Please Print or Type:

COURSE INFORMATION (A person who wishes to that has not been previously approved, must apply		for a course of continuing education
NAME	io. odon upprovan,	TITL
2024 Las Vegas Market Symposium		
Nevada Chapter Appraisal Institute		
5. What is the completion date?	rojected changes in the seal estate. Projection for vig dynamics in southern less. Salum 1	outhern Nevada region. Panel discussions wivacancy rates, property values and trends re-
SUBJECT CLASSIFICATION - CHECK ALL THAT A	PPLY	
 ■ Mass Appraisal Concepts and Applications ■ IAAO Standards ☒ Residential, Commercial/Industrial Appraisal ■ Unitary/Centrally Assessed Property Appraisal ■ Legal Documents (Deeds, Titles, Leases, etc.) ■ Nevada Statutes or Regulation, Appraisal or Assessment Standards 	or Other Appraisal S ☐ GIS, Mapping, CAM	
If other, please describe why the course is applicate The Las Vegas Market Symposium allows local experts southern Nevada.		
REQUIRED MATERIALS TO BE SUBMITTED WITH A Discussion of Course Outline Syllabus or Course Material SIGNATURE Requestor Signature	October 12, 202	
For Department Use Only NUMBER OF CREDIT HOURS GRANTED NUMBER OF CREDIT HOURS APPEARING	G ON TRANSCRIPT MILESTONE A	NPPLIED TO TOTAL HOURS FOR THIS MILESTONE
Verified by:		
Division of Local Government Services Title		Date

2024 Las Vegas Market Symposium ALL DAY Schedule & Topics

CE Time	7:30-8:30 a.m.	Continental Breakfast / Registration
60	8:30-9:30 am	Land
		Moderator
		Matthew J. Nelson, CCIM, CLS - J.A. Kennedy Real Estate Company
		Panelists
		Chris Armstrong - Olympia Companies
		Jennifer Lewis - Lewis Companies
		John Restrepo - RCG Economics
		Vince Schettler - Mosaic Companies
		Panel Discussion
		What is the balance of buyers? More investors or more end-users? How has this changed in the last two years?
		Where will land for future growth come from?
		The Clark County Lands Bill stalled in the Senate this summer? What now?
		What segment has the most interest (Multi-family, commercial, industrial?)
		What are the biggest challenges facing the land market in the next year?
		Discuss recent deals, what was purchased, who the buyer was and why?
		West Henderson is booming, what are your thoughts?
		What is the level of interest for Las Vegas Boulevard south of I-215
		Where do you anticipate growth in the valley?
		Discuss redevelopment in downtown Las Vegas, downtown Henderson and downtown NLV.
		Las Vegas is going for more density, especially around the downtown and medical district. Will this spill over into Clark County or Henderson?
		What is going on around the Raiders stadium? What's redevelopment look like?
		Is there any update to legislative land issues in Clark County?
		Are Sloan and/or Apex poised for major development?
	9:30-9:40 am	Break

Single Family Decidential
Single Family Residential
5 am Moderator
Mark W. Sivek GRI, RRG – Realty One Group
Panelists
Norbert Gyorfi - LeaderOne Financial Corporation
Brian Gordon - Applied Analysis
John P. McLaury – KB Home Nevada
Panel Discussion
Current & Projected Inventory trends
Local market conditions
How and where are investors and typical home buyers competing?
If your kids were buying nowwhat would you tell them?
What types of financing trends (Conventional, FHA, VA, Cash) have you seen since the rates havincreased?
What is the best loan product out there right now?
Discuss current interest rates and how that has impacted the market
What are typical terms for standard conventional loans vs. jumbo loans?
First time home loan programs through the state or federal gov't?
Any recent laws/ regulations that have impacted the home loan market?
Are we in a housing bubble? Why or why not?
Is California migration still affecting the local market?
Where are prices going from here?
What is the dominant type of homebuyer?
How are investors in SF changing the market versus a typical homebuyer?
Are you dealing with more SF rentals now than before?
What are entry level buyers looking at?
What are move up buyers looking at?
2024 forecast for new construction and existing housing market overview
Any foreclosure or short sale activity with mortgage rate increases?
Builders? New Home Construction?
What has been the most restrictive new policy/regulation in home building?
What are the major challenges in getting new home developments approved / finished?
What is the coolest design element you have seen? All price levels?
Builders and Realtorswhat are the design trends that have good or even great market acceptance?
How has the tech industry changed the residential market?
For the builders: What are you currently offering to new home buyers?
For the brokers: What are the buyers looking for? More square footage, more land, flexible floor plans, etc?
Time element in the Short Sale and Foreclosure process and other trends; how has it changed?
Is there a product out there (across the entire US) that is not being offered herethat should be
What is the biggest challenge facing the Single Family market in 2024?
5 am Break

55	10:45-11:40 am	Multi-Family
		Moderator
		Devin Lee, CCIM - Northcap
		Panelists
		Curtis R. Allsop - Newmark
		Jonathan Fore - Fore Property
		Brian Plaster - Signature Management
		Taylor Sims - Cushman Wakefield
		Panel Discussion
		Provide update and understanding of what is going on in the apartment markets
		Who and where are the buyers?
		Who are the lenders and what types of loans are available?
		What are the cap rate trends?
		How does Las Vegas cap rates compare to LA, Phoenix, San Diego?
		How has the renter profile changed over the last several years? Or has it?
		What is the new construction forecast?
		How has inflation impacted current construction costs and development pipelines?
		What are the trends in rents & vacancies?
		How have the changes in the SF market impacted the MF market?
		A vast majority of new developments are Class A. How does that impact the vacancy rates and rent levels at competing properties?
		Are Class B and C properties being upgraded to keep up with market changes?
		How is new construction impacting some of the older product?
		Discuss recent deals, what was purchased, who the buyer was and why?
		How do new products stand out? What are they offering to attract tenants?
		What is a typical lease for a new complex? How many units per month?
		What are the biggest challenges facing the apartment market in the next year?
		What are the changes and trends in the affordable housing market?
		Have we seen more government subsidies/incentives to develop LIHTC projects?
		Several builders are looking inward to the downtown / medical district / Strip adjacent area. Is higher density in the core areas gaining steam?
		Will there be any conversions from extended stays to typical apartment properties?
		What impacts might a recession have on the multi-family market?
		What is the biggest challenge facing the MF market in 2024?
	11:40-11:50 am	Break
60	12-1 p.m.	Lunch Speaker
		Tom Burns, Governor's Office of Economic Development (GOED)
		Topic: Economic Development in Nevada
		Outline for Topics
		Governor's Office of Economic Development (GOED)
		- Leadership & Vision
		- Strategic Growth Opportunities
		- Approved Incentives
		- Explain the benefits of offering incentives (i.e. jobs, wages, capital investment, tax revenue)

		- Describe what tax incentives are made available or considered
		- Are there deadlines and what is the process
		- What is the follow-up for compliance?
		- Discuss the eligibility for incentives
		- How have incentives impacted Nevada
		Explain Transferrable Tax Credit (TTC) programs?
		Nevada Economic Overview
		- Unemployment rates
		- Most impacted industries
		- Nevada's Industry Base
		- Southern Nevada's Industry Base
		- Northern Nevada's Industry Base
		- Diversity Index by County
		- Strategy for the Electric, Innovative & Connected Nevada
		General Topics
		Population and how has it changed in the last decade?
		How do we compare to peer regions?
		What age group has increased and what are the driving factors for this?
		What cities or areas of the US are people migrating from/to Nevada?
		Challenges for Nevada? (i.e., water, public transportation, healthcare access, crime)
	1:00-1:10 pm	Break
		Office
60	1:10-2:10 pm	Office
		Moderator
		Taber A. Thill, SIOR - Colliers
		Panelists
		Cathy Jones, CPA, SIOR, CCIM - Logic Commercial Real Estate
		Darren L. Lemmon - Colliers
		Hayim Mizrachi, CCIM - MDL Group
		Daniel Palmeri, SIOR - CBRE
		Panel Discussion
		How has the LV market changed this year?
		Discuss rent levels, vacancies & current state of the investment market
		Where is the office market in this recovery?
		Where is the office market in this recovery? Discuss current supply and demand trends including concessions being granted
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		Where is the office market in this recovery? Discuss current supply and demand trends including concessions being granted Who and where are the buyers? Where are rents compared to a year ago? Which areas are increasing/decreasing/stable? From a national perspective, how does the Las Vegas market stack up for investors and owner/users? What is the current state of the office market in terms of who is buying and what loans are available? Demand for leasing office products, which submarkets are strong, and which are not?
		Where is the office market in this recovery? Discuss current supply and demand trends including concessions being granted Who and where are the buyers? Where are rents compared to a year ago? Which areas are increasing/decreasing/stable? From a national perspective, how does the Las Vegas market stack up for investors and owner/users? What is the current state of the office market in terms of who is buying and what loans are available?

		Discuss recent deals what was a week and what the houseway and who
		Discuss recent deals, what was purchased, who the buyer was and why?
		What are some significant lease deals? What do you see on the horizon?
		What are the cap rate trends?
		How does Las Vegas cap rates compare to LA, Phoenix, San Diego?
		Discuss current pricing on TIs
		How is the Hughes Center stacking up versus all the new office competition along the Beltway?
		How is new technology affected the office market? ie new building systems, EV charging, self-driving cars, walkable development or technology tenants need to operate
		How has inflation impacted current construction costs and development pipelines?
		What impacts might a recession have on the office market?
		With the office market most impacted with the work-from-home model, how has that impacted buyers, sellers, investors and tenants?
		What is the biggest challenge facing the office market in 2024?
	2:10-2:20 pm	Break
60	2:20-3:20	Industrial
	2.20 0.20	Moderator
		Michael G. DeLew, SIOR - RealComm Advisors
		Panelists
		Amy Ogden, SIOR - Logic Commercial Real Estate
		Doug Roberts - Panattoni Development
		Lisa Brady - ProLogis
		Sean Zaher - CBRE
		Panel Discussion
		Discuss rent levels, vacancies, current pricing and who the buyers are
		Which submarkets are outperforming?
		Are investors interested in more than large buildings?
		What is the supply and demand of for sale properties versus last year?
		What is the supply and demand for vacant industrial land?
		If a large developer wanted to build a new project, where can they go?
		How has Apex changed over the past year?
		With medical marijuana development in Apex, is development there now feasible for other users?
		If you had no projects in Las Vegas and wanted to enter the market, would you build or buy? What product would you be interested in?
		Have you seen any co-warehousing projects in Southern NV? Does it have a place in this market?
		Discuss equity rates of return on all of the investment type properties
		What impacts have you seen from the recent increase in interest rates?
		Is there going to be a loss of inventory around the Raider's stadium?
		Is there anything that you are seeing from prospective tenants that has changed your development or expenditure plans?
		Discuss current pricing on TIs
		How is new technology affected the industrial market? ie EV charging, self-driving cars, new building systems or technology tenants need to operate
		There is limited small space available? Any development on that front?
		Is e-commerce still outperforming the rest of the market?

		How has inflation impacted current construction costs and development pipelines? What impacts might a recession have on the office market?	
		, ,	
		What is the biggest challenge facing the industrial market in 2024?	
	3:20-3:30 pm	Break	
60	3:30-4:30 pm	Retail	
		Moderator	
		Daniel R. Adamson - ROI Commercial Real Estate	
		Panelists	
		David A. Grant – Colliers	
		Adam Malan - Colliers	
		Jeffrey Mitchell, CCIM, CLS - Mountain West Commercial Real Estate	
		Rob Moore - Green Valley Grocery	
		Jennifer Ott, CCIM - CBRE	
		Panel Discussion	
		How has the retail market changed this year?	
		Discuss rent levels, vacancies & current retail pricing.	
		Is there any submarket that is not seeing growth or positive absorption?	
		Are the national retailers retreating, retrenching or reinvigorating the centers they occupy?	
		How has changes in the big box segment affected shopping centers and the retail market overall? Any of these big boxes being considered for last mile facilities, storage, medical or other purposes?	
		What are the impacts of the potential Kroger / Albertson's merger?	
		What do you see happening in the capital markets and retail property investment sales	
		Discuss rates of return for all retail properties	
		Where is there demand for retail land?	
		Discuss recent deals, what was purchased, who the buyer was and why they purchased?	
		Is Las Vegas being considered by more national investors? Why or why not?	
		Any regional / national retailers/ store closures coming that you're aware of?	
		Discuss current supply and demand trends including concessions	
		Are there any value-add properties left in the market?	
		Will the Raiders Stadium and-or practice facility effect retail investment or leasing in those surrounding areas?	
		Are lenders still actively lending on retail projects and is there anything they are avoiding?	
		Live/Work/Play developments are popular, but it seems the retail portions aren't as successful. Symphony Park, developments near UNLV and on Fremont Street have vacant retail elements. As more are being constructed, what future do you see for this type of development?	
		What are you seeing on rates of return for investment properties	
		What are retail property owners doing to attract tenants?	
		How is new technology affecting the retail market? i.e. EV charging, self-driving cars, walkable developments	
		Discuss current pricing on TIs	
		We are all aware of the short term changes that occurred due to pandemic, but how has the pandemic changed the retail landscape on a long-term basis?	
		Any new or sustainable patterns emerge after COVID?	
		How has inflation impacted current construction costs and development pipelines?	

What impacts might a recession have on the office market?
What is the biggest challenge facing the retail market in 2023?
What has changed in the foot traffic and buying patterns in the convenience market space since COVID

APPRAISER CERTIFICATION BOARD

November 9, 2023

Agenda Item 4

(c) Nevada Chapter Appraisal Institute- 2023 Northern NV Real Estate Overview



Nevada Department of Taxation Property Tax Appraiser Continuing Education New Course Application

Return this form to: Division of Local Government Services 1550 College Parkway Carson City, Nevada 89706

Please Print or Type:

COURSE INFORMATION (A person who wishes to rethat has not been previously approved, must apply	receive contact hours for a course of continuing education for such approval.)
NA NA	TITLE
2023 Northern Nevada Real Estate Ov	verview
Nevada Chapter Appraisal Institute	
participants for a dialogue with appraisers on past and progenerate discussion of the trends involving all types of reagarding ownership, pricing, construction and the changing 2. What are the hours of instruction? 7 Hours	ovember 2, 2023
□ Mass Appraisal Concepts and Applications □ IAAO Standards □ Residential, Commercial/Industrial Appraisal □ Unitary/Centrally Assessed Property Appraisal □ Legal Documents (Deeds, Titles, Leases, etc.) □ Nevada Statutes or Regulation, Appraisal or Assessment Standards	□ College or Professional Level Accounting, Finance, Statistics or Other Appraisal Subjects □ GIS, Mapping, CAMA □ Laws Relating to Real Estate, Water or Mining □ Professional Ethics ☑ Other
If other, please describe why the course is applicab The Northern Nevada Real Estate Overview allows local northern Nevada.	le to appraisal and/or property tax. experts in the related real estate fields to discuss market trends in
REQUIRED MATERIALS TO BE SUBMITTED WITH A ☐ Detailed Course Outline ☐ Syllabus or Course Material	APPLICATION INCLUDE:
SIGNATURE Requestor Signature Date	October 10, 2023
For Department Use Only NUMBER OF CREDIT HOURS GRANTED NUMBER OF CREDIT HOURS APPEARING	ON TRANSCRIPT MILESTONE APPLIED TO TOTAL HOURS FOR THIS MILESTONE
Verified by: ▶ Division of Local Government Services Title	Date
DIVISION OF LOCAL GOVERNMENT SERVICES TITLE	Date

Course Outline

2023 Northern Nevada Real Estate Overview

	7:30-8:30 a.m.	Continental Breakfast / Registration
		Nicholas W. Bennett, MAI - Nevada Chapter President, Moderator
50	8:30-9:20 a.m.	Land
		Moderator
		Bruce Hahn, MAI, SRA
		Panelists
		Adam Carlson - Stark Accelerators
		Rex Massey - Industrial Realty Group
		Brett Edwards - CBRE
		Panel Discussion
		What is the balance of buyers? More investors or more end-users? How has this changed in the last two years?
		Where will land for future growth come from?
		What segment has the most interest (Multi-family, commercial, industrial?)
		What are the biggest challenges facing the land market in the next year?
		Discuss recent deals, what was purchased, who the buyer was and why?
		Where do you anticipate growth in the valley?
		What are we seeing as far as development in the outer lying areas? (Carson, Fernley, Dayton, Minden/Gardnerville, Fallon, etc.)
	9:20-9:25 a.m.	Break

50	9:25-10:15 a.m.	Single Family Residential
		Moderator
		Daniel R. Brauning, SRA, AI-RRS
		Panelists
		Nick Abe - RE/MAX Professionals
		Kim Petrie - Axia Home Loans
		Mike Wood - RE/MAX Professionals
		Panel Discussion
		Current & Projected Inventory trends
		Local market conditions
		Financing type (CONV, FHA, VA, CASH) trends since the hike in Mortgage interest rates in 2022/2023
		Any recent laws/ regulations that have impacted the home loan market?
		Regarding interest rates of today - Discuss residential lending & lenders
		What types of homebuyers are driving the market in Northern Nevada?
		What are typical terms for standard conventional loans vs. jumbo loans?
		Financing new home purchases (i.e., subdivisions) – is this market competitive and/or do most builders have their own priority lenders,
		Are there any first time home loan programs through the State of Nevada or other gov't programs
		How and where are investors and typical home buyers competing?
		2024 forecast for new construction and existing housing market overview
		New Home construction trends
		For the builders: What are you currently offering to new home buyers?
		For the brokers: What are the buyers looking for? More SF, more land, flexible floor plans, etc.?
		Foreclosure activity
		How has the tech industry changed the residential market?
		What types of homebuyers are driving the market in Northern Nevada?
		What are major challenges in getting future developments approved considering added traffic of many projects?
		Relative to above, what has impact been on fees charged by jurisdictions for new housing developments?
		What is the pipeline of potential available new subdivisions?
		What areas in Northern Nevada are seeing the newest subdivision growth?
	10:15-10:20 a.m.	Break

50	10:20-11:10 a.m.	Industrial
		Moderator
		Benjamin W. Gregg, MAI - Newmark Valuation & Advisory
		Panelists
		Bradley J. Elgin - Stark Accelerators
		Paul Kinne - Panattoni Development
		Panel Discussion
		Discuss rent levels, vacancies, current pricing and who the buyers are
		Are any submarkets lagging in absorption and rental rate growth?
		Are investors interested in more than large buildings?
		What is the supply and demand of for sale properties versus last year
		Is there a noticeable change in demand for industrial land and where is it located?
		What special ways will technology companies incorporate technology into build-to-suits?
		Is there anything that you are seeing from prospective tenants that has changed you development or expenditure plans?
		If you had no projects in Reno/Northern NV and wanted to enter the market, would you build or buy? What product would you be interested in?
		Discuss equity rates of return on all of the investment type properties
		What impacts have you seen from the recent increase in interest rates?
		Are supply chain issues corrected?
		How have construction costs impacted the Industrial market?
		Have you seen any co-warehousing projects in Northern NV? Does it have a place in this market?
		How had the pandemic changed the Northern NV Industrial market?
	11:10-11:15 a.m.	Break

50	11:15 a.m12:05 p.m.	Multi-Family
		Moderator
		Sarah K. Fye - Johnson Perkins Griffin
		Panelists
		Kenneth Blomsterberg - Marcus & Millichap
		Ben Galles - LOGIC Commercial Real Estate
		Jessie Greer, MSRE, CCIM, CPM, CEPA - Avison Young
		Panel Discussion
		Provide update and understanding of what is going on in the multi-family market
		What are the trends in rents & vacancies? Briefly discuss impact of the pandemic on the multi-family market.
		With such low vacancies and constantly growing rents, when do you expect the market to stabilize? Or, perhaps see rents decline & vacancies increase?
		Discuss recent salesWhat was purchased, who were the buyers, etc.?
		Where are cap rates at (Class A vs. Class B vs. Class C)?
		How do the recent cap rate trends in the Reno-Sparks market compared to larger markets? (Sacramento, Bay Area, etc.)
		Who are the current lenders and what types of loans are available?
		What is the new construction forecast?
		What is the current impact from lenders on financing for new development?
		With the current construction costs, how has development been impacted?
		With the supply of Class A apartments under construction and planned, how do you see this impacting the vacancy rates and rent levels for competitive apartments and how is this trickling down to older Class B/C properties?
		What are we seeing with some of the larger projects or higher density development areas? (Reno Experience District, Ballpark Apartments, etc.)
		What are we seeing as far as development & rent/vacancy trends in the outer lying areas? (Carson, Fernley, Dayton, Minden/Gardnerville, Fallon, etc.)
		What are the changes and trends in the affordable housing market?
		Have we seen more government subsidies/incentives to develop LIHTC projects?
		What are the biggest challenges facing the apartment market in the next year?
		What impacts might a recession have on the multi-family market?
	12:05-12:15 p.m.	Break

50	12:15-1:05 p.m.	Lunch Speaker
		Doug Wiele, President and Founding Partner, Foothill Partners
		Topic: Bringing Failed Real Estate Back to Life
		Discussion:
		Explain the foundation of Foothill Partners and your commitment to healthy communities
		How do you decide to acquire and develop properties?
		Explain what commercial renovation is and the benefit (and pitfalls) with a project What are features in a property that you consider when repurposing (i.e. local family history, size of property, parking availability)?
		Where there any challenges relative to the zoning ordinances?
		Do you find that the buildings require updating to current codes?
		Give examples of what are "under-utilized" buildings
		Speaking locally, discuss projects - the Reno Public Market, the Truckee projects and the Oddie District in Sparks
		What is the history of each of these projects?
		The "community centric" of the projects feel innovative - how do you decide what businesses will work well with your vision?
		Tell us the variety of types of space within each of the projects (i.e. business, arts, tech, restaurants, outdoor)
		Discuss the variety of suites available for business
		How has local jurisdiction assisted with improvements (i.e. utilities, parking, etc.)?
		What have been the challenges to complete a project?
	1:05-1:10 p.m.	Break

50	1:10-2:00 p.m.	Office
		Moderator
		Jonathan Wenthe - Cushman Wakefield
		Panelists
		Michael Keating, SIOR - Logic RE
		Todd Collins, CCIM - Cushman Wakefield
		Panel Discussion
		Provide update and understanding of what is going on in the office markets
		Who and where are the buyers?
		What were some of the notable (buyer/investor) transactions that took place?
		What markets (i.e. downtown, South Meadows, Sparks, etc.) do you see expansion in the office space sector?
		Is there new construction in the office market? If so, what areas?
Who are the lenders and what types of loans are available?		Who are the lenders and what types of loans are available?
		What are the cap rate trends?
		How has the renter profile changed over the last several years? Or has it?
		What are the trends in rents & vacancies?
		Where there any significant lease deals in 2023? What do you see on the horizon?
		What impact is inflation and rising interest rates having on the office market segment?
		Is hybrid work schedule impacting the office market?
		What are the biggest challenges facing the office market in the next year?
	2:00-2:05 p.m.	Break

50	2:05-2:55 p.m.	Retail
		Moderator
		Julie Ott, MAI - Carter-Ott Appraisal, Ltd.
		Panelists
		Ian Cochran, CCIM - Logic Commercial Real Estate
		Amanda Lavi, CCIM, Senior Associate, Colliers - Northern NV Retail Services
		Shawn Smith, CCIM, CRRP, Executive Vice President - Kidder Matthews OR
		Sean Retzloff Executive Vice President - Kidder Matthews
		Panel Discussion
		We are all aware of the short term changes that occurred due to pandemic, but how has the pandemic changed the retail landscape on a long-term basis?
		Related to the above, any new and sustainable retail patterns that have emerged due to pandemic?
		Delineating retail to "In town" and Suburban, what has been most heavily impacted retail sector - both positive and negative?
		Discuss current rent levels, vacancies. concessions & current retail pricing. Any recent deals that you can provide? (i.e. typical parameters or extraordinary pricing)?
		Where do you see rent levels, pricing and cap rates going over the next few years? From an investor/developer viewpoint, what are your return targets now as opposed to 6 months to a year ago?
		What is the "appetite" for local retailers, regional retailers and national retailers for the Northern Nevada market?
		How have changes in the big box segment affected shopping centers and the retail market overall?
		Of big box properties that have been vacant for years in Reno/Sparks, is there anything planned for these? - i.e. Sports Authority, Circuit City, Mervyns, etc? Last Mile facilities residential, storage, medical, etc.
		Discuss recent deals and/or trends for repositioned centers - Reno Public Market; Oddie District; Others?
		Live/Work/Play developments was a "buzz" before the pandemic - do you see continued viability for retail within this type of development and why? Can you comment on the Reno Experience District?
		Can anyone comment about Victorian Square?
		Any regional / national retailers/ store closures coming that you're aware of?
		Where is the demand for retail land?
		For developers, what is the biggest challenge that is being seen in developing within new or repurposed centers and leasing new spaces?
		Relative to above, what are the biggest entitlement hurdles right now for development? Perhaps comment on lag time for permitting, other entitlement hurdles? Tenant/User delays in decision-marking?
		How are increasing construction costs for TI's (that would be borne by either landlord or tenants) impacting the market and overall lease negotiations?
		What are retail property owners doing to attract tenants?
		Are lenders still actively lending on retail projects and is there anything they are avoiding?
		Are you seeing any innovative and green construction technique/ trends for retail?
		Finally, and if we haven't covered already – what are most recent impacts to the Northern NV retail real estate market with inflation and increasing interest rates.
350		Time Calculations: 350 minutes divided by 50 minute hour = 7 hours CE

APPRAISER CERTIFICATION BOARD

November 9, 2023

Agenda Item 4

(d) Various sessions in the 2013 IAAO Annual Conference



Nevada Department of Taxation Property Tax Appraiser Continuing Education New Course Application

Return this form to:
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1550 College Parkway
Carson City, Nevada 89706

Please Print or Type: COURSE INFORMATION (A person who wis that has not been previously approved, mus	thes to receive contact hours for a course of continuing education
NAME OF REQUESTER	TITLE
TITLE OF COURSE	
Various sessions in the 2023 IAAO Annu	ual Conference - see attached
VENDOR/PROVIDER IAAO	
1. Course Summary: See attached	
2. What are the hours of instruction? 20.5 hou	Jrs
3. What is the completion date? 8/28/23 - 8/30/2	23
SUBJECT CLASSIFICATION - CHECK ALL T	HAT APPLY
☑ Mass Appraisal Concepts and Applications ☐ IAAO Standards	☑ College or Professional Level Accounting, Finance, Statistics or Other Appraisal Subjects
☑ Residential, Commercial/Industrial Appraisal	☐ GIS, Mapping, CAMA
 ☐ Unitary/Centrally Assessed Property Appraisal ☐ Legal Documents (Deeds, Titles, Leases, etc.) ☐ Nevada Statutes or Regulation, Appraisal or Assessment Standards 	I
If other, please describe why the course is a	pplicable to appraisal and/or property tax.
REQUIRED MATERIALS TO BE SUBMITTED Detailed Course Outline Syllabus or Course Material Descriptions	WITH APPLICATION INCLUDE:
SIGNATURE	
Requestor Signature	
or Department Use Only	
NUMBER OF CREDIT HOURS GRANTED NUMBER OF CREDIT HOURS	APPEARING ON TRANSCRIPT MILESTONE APPLIED TO TOTAL HOURS FOR THIS MILESTONE
Verified by:	

Date

Division of Local Government Services

Below is a copy of the education sessions in the 89th IAAO Annual conference. Highlighted sessions are the ones being requested for new course approval. Descriptions for each session are included after the session schedule.



Schedule 2023

Monday, August 28th

10:30 AM

Comparing Sold and Unsold Properties: The Ultimate Test for Assessed Values

Luc Hermans, Netherlands Council for Real Estate Assessment **Marco Kuijper**, Netherlands Council for Real Estate Assessment Ballroom I

10:30 AM - 11:30 AM

From the Boots Up: Building a Better Manager

Kara Endicott CAE, RES, Johnson County Appraiser's Office, Kansas Brad B. Eldridge CAE, MAI, Douglas County Appraiser's Office, Kansas Ballroom |

10:30 AM - 11:30 AM

Getting Mass Appraisal Models Up and Running in Serbia

Russ Thimgan, *Thimgan Associates, Inc., Arizona* Room 251AB

10:30 AM - 11:30 AM

Increasing Appraisal Capacity in the Big Apple With Mobile Technology

Daniel Anderson, *Data Cloud Solutions, a Woolpert Company, Ohio* **Howard Wong**, *New York City Department of Finance*Room 250AB

10:30 AM - 11:30 AM

Making Marijuana Personal

Bryan K. Shuck, *Cleveland County, Oklahoma* Ballroom H

10:30 AM - 11:30 AM

<u>The Future of Technology: Empowering Assessors Through Business</u> <u>Intelligence (Strategic Partner Thought Leader Session)</u>

Stefani Zimmerman, Moderator, Farragut

Sanjay Chouhan, Farragut

Ed Parker, Farragut

Brad Fowler RES, AAS, Mecklenburg County, NC

John Burgiss RES, Forsyth County, NC

Room 150G

10:30 AM - 11:30 AM

The Unbearable Need for Massive Talent

Burt Garfield, Utah County, Utah

Room 250DE

10:30 AM - 11:30 AM

Using Google Maps for Field Inspections

Michael P. Mills CAE, RES, MAS, Travis County Appraisal District, Texas

Glenn Rodgers, Travis County Appraisal District, Texas

Ballroom G

10:30 AM - 11:30 AM

1:00 PM

Climate Change and Property Assessment Practices

Laura MacLean, Property Valuation Services Corporation, Nova Scotia, Canada

Room 250AB

1:00 PM - 2:30 PM

Cost Approach for Special Use Properties (Computer Data Centers)

Edward L. Martinez, CoreLogic, California

Ballroom H

1:00 PM - 2:30 PM

GIS 101

Brent Jones PE, PLS, Esri, California

Lauren Voelker, Esri, California

Linda Foster, Esri, California

Ballroom G

1:00 PM - 2:30 PM

Improve Your Odds for Success in Tax Appeal Hearings

Shawn E. Wilson MAI, IAAO, *Compass Real Estate Consulting, Inc., Florida* **Peter Korpacz MAI, CRE, FRICS**, *Korpacz Realty Advisors, Inc., Maryland*

Ballroom I

1:00 PM - 2:30 PM

Racial and Social Equity in Assessments

Kevin Keene, Keene Mass Appraisal Consulting, Pennsylvania

Ballroom I

1:00 PM - 2:30 PM

Ratio Study Practices in North America and Beyond

Alan S. Dornfest AAS, FIAAO, Idaho State Tax Commission, Idaho Melissa Baer CAE, Melissa Baer Consulting, North Carolina

Lloyd Funk CAE, Assessment Services of Manitoba, Manitoba, Canada

Joe Hapgood CAE, Oklahoma Tax Commission, Oklahoma

Marco Kuijper, Dutch Council for Real Estate Assessment, The Netherlands

Luc D. Hermans, Netherlands Council for Real Estate Assessment

Room 250DE

1:00 PM - 2:30 PM

See More From the Air: Commercial Property Assessment Becomes Easier With High-Resolution Aerial Imagery (Strategic Partner Thought Leader Session)

Doug Tonnemacher, Moderator, EagleView Megan Reilly, EagleView John Wilson, King County, WA Room 150G

1:00 PM - 2:00 PM

#SocialGov?! Using Social Media to Amplify Your Message

Jennifer Sanchez, Cook County Assessor's Office, Illinois Room 250AB

1:00 PM - 2:30 PM

The Appraisal Foundation

David Bunton, The Appraisal Foundation, Washington D.C.

Room 251AB

1:00 PM - 2:30 PM

Truth In Taxation is Not Prop 13.

John L. Valentine, *Utah State Tax Commission, Utah* Room 250AB

1:00 PM - 2:30 PM

3:00 PM

Basic Principles of Data Science for Assessors and Managers

Ed Parker, Farragut, North Carolina

Ballroom I

3:00 PM - 4:00 PM

Can Technology Eliminate the Need for Physical Inspections?

Stephen Skirkanich SRA, Loudoun County, Virginia

Ballroom I

3:00 PM - 4:00 PM

Mapping the Road to Trust: Leveraging GIS Technology to Reduce and Settle Tax Appeals and Build Public Confidence

James Werner, Tippecanoe County Assessor's Office, Indiana Samantha Steele AAS, Cook County Board of Review, Illinois Christopher Coakes, Tippecanoe County, Indiana Room 251AB

3:00 PM - 4:00 PM

Maximum Efficiency - Mass Appraisal Tools in Fast-Growing County

Erin M. Brady, Ada County Assessor's Office, Idaho

Mark J. Southard, Ada County Assessor's Office, Idaho

Kelly G. Cumming, Ada County Assessor's Office, Idaho

Ballroom G

3:00 PM - 4:00 PM

Multifamily Repurposing: Trend or Craze & How It Makes Sense

Kelby L. Collier AAS, Osceola County Property Appraiser, Florida

Room 250AB

3:00 PM - 4:00 PM

That's a Farm? Ontario's Experience with Controlled Environment Agriculture (CEA)

Jason Wilson BA, MRICS, Municipal Property Assessment Corporation, Ontario, Canada **Jamie Stata BA, MRICS**, Municipal Property Assessment Corporation, Ontario, Canada Ballroom H

3:00 PM - 4:00 PM

The Impact of Government Policies on Valuation in Korea

Su-Yeon Jung, Jeju National University, Republic of Korea

Room 250DE

3:00 PM - 4:00 PM

Tuesday, August 29th

9:30 AM

<u>Assessing in 2023 and Beyond: What's Next for the Assessing World?</u> (Strategic Partner Thought Leader Session)

Michael McFarlane, Moderator, Tyler Technologies

Robert Gloudemans FIAAO, Robert Gloudemans, Mass Appraisal Consultant

Stephen White, Cobb County, GA

Gary Townsend, EKA Government Advocacy & Public Affairs

Monica Williams, Philadelphia, PA

150 G

9:30 AM - 10:30 AM

Mapping (In)Equity: Using ArcGIS for Oversight and Fairness

Benjamin Bedard, City of Minneapolis

Benjamin Nelsen, City of Minneapolis

Rachel Crews, City of Minneapolis

Room 251AB

9:30 AM - 10:30 AM

Mass Appraisal is a TEAM Sport

Derrick D. Niederklein AAS, MIPS, Multi-County Information and Programming Services,

Nebraska

Ballroom J 9:30 AM - 10:30 AM

Property Tax Valuations - Quality Audit Framework

Paul Sanderson, International Property Tax Institute

Room 250DE

9:30 AM - 10:30 AM

Retail Space Trends, Valuing Lifestyle Centers, and Mixed-Use Villages

Vision Government Solutions, Inc.

R. Lane Partridge MAA, Town of Barnstable, Massachusetts

Mike Tarello, Vision Government Solutions, Inc., Massachusetts

Ballroom H

9:30 AM - 10:30 AM

<u>Supercharge Your Power BI Reports by Using DAX (Data Analysis Expressions)</u>

David M. Cornell CAE, MAI, Cornell Consultants, New Hampshire

Ballroom G

9:30 AM - 10:30 AM

<u>Truth in Taxation - An Alternative to Assessment and Levy Caps</u>

Joan Youngman, Lincoln Institute of Land Policy, Massachusetts

Gary C. Cornia, Brigham Young University, Utah

Nathan Seegert, University of Utah

Room 250AB

9:30 AM - 10:30 AM

Using New GIS Tools for Non-GIS Users

Lauren Voelker, Esri, California

Ballroom I

9:30 AM - 10:30 AM

11:00 AM The Status and Outlook of the U.S. Economy and Monetary Policy

Dr. LaVaughn Henry Ph.D., CBE, Formerly of the Council of Economic Advisers, The White House

Grand Ballroom A-F

11:00 AM - 12:30 PM

1:30 PM Anticipating the Biggest Changes in the Future for the Property
Assessment Industry (Strategic Partner Thought Leader Session)

Michael Lomax MBA, RI, Esri Canda Assessment Analyst

Room 150G

1:30 PM - 2:30 PM

Effective Language for Essential Conversations

Max Hunsaker MPA, Arena Mail & Design, Utah

Room 250DE

1:30 PM - 2:30 PM

Embracing Neurodiversity in the Workplace

Tiffany A. Opheikens RES, *Plain City, Utah* **Chesney Leafblad CIAO-M**, *Warren Township, Illinois*Ballroom G

1:30 PM - 2:30 PM

External Use of Assessment Data

Phillip Walters, *Urban3*, *North Carolina* Ballroom H

1:30 PM - 2:30 PM

Get with the Times - Upgrade your Calculator to the TI84

Michael P. Mills CAE, RES, MAS, *Travis Central Appraisal District, Texas* **Lance Briner CAE**, *Alachua County Property Appraiser's Office, Florida* Ballroom I

1:30 PM - 2:30 PM

IAAO Ethics: An Overview and Recent Changes

Joel Cuthbert, Arapahoe County, Colorado **Stuart Topliff**, Town of Rocky Hill, Connecticut Room 251AB

1:30 PM - 2:30 PM

Insights on the Turkish Real Estate Market

Habibe Iyimaya Kayaaslan Ph.D. Can., *Ankara University, Turkey* Ballroom H

1:30 PM - 2:30 PM

The State of the Commercial and Residential Real Estate Markets

Dr. LaVaughn M. Henry Ph.D., CBE, Formerly of the Council of Economic Advisers, The White House
Room 250AB

1:30 PM - 2:30 PM

<u>Updating Valuation Neighborhood Boundaries: The Good the Bad and the Ugly</u>

Daniel J. Fasteen, *Tyler Technologies, Inc., Ohio* **Paul Bidanset**, *Center for Appraisal Research and Technology, Virginia*Ballroom J

1:30 PM - 2:30 PM

3:30 PM

Building High Performing Teams

Dr. Judy Favor Ph.D., *Kansas State University* Room 251AB

3:30 PM - 4:30 PM

Changing the Culture through Patience, Trust, and Recognition

Cregg E. Dalton MBA, CFA, Citrus County Property Appraisers Office, Florida Room 250DE

3:30 PM - 4:30 PM

Need for Post COVID Property Tax Revaluation/Reappraisal in an Economic **Crisis**

Gary Watson, Institute of Revenues Rating and Valuation, London **Carla-Maria Heath**, Institute of Revenues Rating and Valuation, London Ballroom H

3:30 PM - 4:30 PM

Small Mixed-Use and Residential Investment Appraisal and Appeal

Bruce Witt, Tyler Technologies, Ohio Ballroom I

3:30 PM - 4:30 PM

The PRB: An Unbiased Approach to Measuring Vertical Equity

Robert Gloudemans FIAAO, Almy, Gloudemans, Jacobs & Denne, Arizona Ballroom G

3:30 PM - 4:30 PM

Tools for Achieving Uniformity in Property Data

Daniel Hagen, Skagit County, Washington Ballroom I

3:30 PM - 4:30 PM

Understanding and Improving the Quality of our Property Data

Andy Grayson, Valuation Office Agency, United Kingdom Rob Dickinson, Valuation Office Agency, United Kingdom Room 250AB

3:30 PM - 4:30 PM

Wednesday, August 30th

9:00 AM PAVE: The Connection Between Eliminating Bias and An Assessor's Work

Melody Taylor, US Dept of Housing and Urban Development, Washington D.C.

Grand Ballroom A-F 9:00 AM - 10:00 AM

10:30 AM **Cyberattacks: Understanding Your Organizational Resiliency**

Tim Walsh, Tyler Technologies, Ohio Room 250AB

10:30 AM - 11:30 AM

IAAO Town Hall

Patrick Alesandrini CAE, RES, IAAO President, Hillsborough County Property Appraiser's Office,

Rebecca Malmquist CAE, IAAO President Elect, City of Minneapolis

Room 251AB

10:30 AM - 11:30 AM

Innovating Your Workplace

Lloyd Funk CAE, Manitoba Assessment Services, Manitoba, Canada **Patty Freeman**, Manitoba Assessment Services, Manitoba, Canada Ballroom G

10:30 AM - 11:30 AM

Legislative Impacts on Accessory Dwelling Units

Craig W. Handsor, Wilfrid Laurier University, Waterloo, Ontario, Canada **Jamie Stata**, MRICS, Municipal Property Assessment Corporation, Ontario, Canada Ballroom H

10:30 AM - 11:30 AM

Leveraging Technology to Improve Accuracy and Efficiency

Chris Connelly CAE, AAS, RPA, *Williamson Central Appraisal District, Texas* **Matt Thomas**, *Cyclomedia, Wisconsin*Room 250DE

10:30 AM - 11:30 AM

No Sales, No Problem

Jake Parkinson, *Tooele County, Utah* Ballroom J

10:30 AM - 11:30 AM

Transforming "Accidental" into "Intentional"

Kevin Prine MPA, RES, AAS, Suffolk City Assessor, Virginia Ballroom I

10:30 AM - 11:30 AM

1:00 PM

Addressing Appraisal Myths and Market Realities in Appeals

Peter F. Korpacz, Korpacz Realty Advisors, Inc. **Richard Marchitelli**, Cushman & Wakefield Ballroom I

1:00 PM - 2:30 PM

An Analytical Take on Mass Appraisal in the UK

Andy Grayson, Valuation Office Agency, United Kingdom **Rob Dickinson**, Valuation Office Agency, United Kingdom Room 250AB

1:00 PM - 2:30 PM

<u>Demonstration of the Lincoln Institute Vertical Equity App</u>

Ron Rakow, Lincoln Institute of Land Policy, Massachusetts **Paul Bidanset**, Center for Appraisal Research and Technology, Virginia

Room 250DE

1:00 PM - 2:30 PM

Evaluating Appeal Bias

Brad Fowler RES, AAS, *Mecklenburg County, North Carolina* **Ken Joyner RES, AAS, PPS**, *Mecklenburg County Assessor, North Carolina*Ballroom J

1:00 PM - 2:30 PM

How to Implement Regression Modeling in a Small Jurisdiction

Joshua Myers, *Josh Myers Valuation Solutions, Virginia* **Stephenie Love RES**, *City of Poquoson, Virginia* Room 250DE

1:00 PM - 2:30 PM

Pre-Trials and Tribulations

John Valente, *Safeground Analytics, Inc., Massachusetts* **Michael McFarlane**, *Tyler Technologies, Inc., Ohio*Ballroom G

1:00 PM - 2:30 PM

<u>Understanding and Navigating the Current Cyber Threat Landscape</u>

Mike Wright, Excellent Training, Tennessee Room 251AB

1:00 PM - 2:30 PM

Valuation of Renewable Energy

Bradley A. Eldridge CAE, MAI, *Douglas County Appraiser's Office, Kansas* **Kara Enidcott CAE, RES, RMA**, *Johnson County Appraiser's Office, Kansas* Ballroom H

1:00 PM - 2:30 PM

3:00 PM

Bringing Market Analytics to Life

Brent C. Hudson, *Municipal Property Assessment Corporation, Ontario, Canada* Ballroom H

3:00 PM - 4:00 PM

Case Management System: Investigate Exemption Compliance

Manish Bhatt, Osceola County Property Appraiser's Office, Florida **Katrina Scarborough**, Osceola County Property Appraiser's Office, Florida Room 250AB

3:00 PM - 4:00 PM

<u>County Authority and Assessment: Why County Governance Matters to the Assessing Profession</u>

Teryn Zmuda, National Association of Counties (NACo), Washington D.C. Room 251AB

3:00 PM - 4:00 PM

Damage Assessment: Automation Tools and Techniques

Terry R. Taylor CAE, RES, AAS, FIAAO, *Orange County Property Appraiser, Florida* Ballroom I

3:00 PM - 4:00 PM

Keep 'Em with Culture

Stacey Haynes, *Palm Beach County, Florida* Ballroom G

3:00 PM - 4:00 PM

Portability of Regression Models

Kevin Keene, Keene Mass Appraisal Consulting, Pennsylvania Room 250DE

3:00 PM - 4:00 PM

The Assessment Jurisdiction of the 21st Century in Ireland and Ontario, Canada

Greg Martino, Municipal Property Assessment Corporation, Ontario, Canada **Liam Butler**, Tailte Eireann, Ireland
Ballroom J

3:00 PM - 4:00 PM

1. Comparing Sold and Unsold Properties: The Ultimate Test for Assessed Values (1 hour)

Comparing Sold and Unsold Properties: The Ultimate Test for Assessed Values

<u>Luc Hermans</u>, Netherlands Council for Real Estate Assessment <u>Marco Kuijper</u>, Netherlands Council for Real Estate Assessment



Speaker Website

www.waarderingskamer.nl

Presentation Category

08 OVERSIGHT AND COMPLIANCE REVIEW

Session Description

The Netherlands Council for Real Estate Assessment calculates several key figures to analyze differences between sold and unsold properties. In the presentation we show how we use these indicators in evaluation of the newly estimated values.

2. Increasing Appraisal Capacity in the Big Apple With Mobile Technology (1 hour)

Increasing Appraisal Capacity in the Big Apple With Mobile Technology

<u>Daniel Anderson</u>, Data Cloud Solutions, a Woolpert Company, Ohio <u>Howard Wong</u>, New York City Department of Finance



Presentation Category

02 COLLECTING AND MAINTAINING PROPERTY DATA

Session Description

This session will discuss how New York City increased appraisal capacity and data integrity by utilizing mobile technology used by 100 field appraisers across 5 borough offices. The city utilizes a variety of highly configurable appraisal technologies for streamlining field and office tasks—from collecting property data to verifying, analyzing, and improving it.

3. Cost Approach for Special Use Properties (Computer Data Centers) (1.5 hours)

Cost Approach for Special Use Properties (Computer Data Centers)

Edward L. Martinez, CoreLogic, California

Follow

Speaker Website

www.corelogic.com

Presentation Category

BACK TO BASICS

Session Description

Today's world of technology places a greater demand on special use properties like Computer Data Centers, Mega Warehouses, Distributions Warehouse and more. This presentation will discuss key points that will help support your opinion of value when assessing these type structures.

4. Improve Your Odds for Success in Tax Appeal Hearings (1.5 hours)

Improve Your Odds for Success in Tax Appeal Hearings

Shawn E. Wilson MAI, IAAO, Compass Real Estate Consulting, Inc.,

Follow

Florida

Peter Korpacz MAI, CRE, FRICS, Korpacz Realty Advisors, Inc., Maryland Follow

Speaker Website

www.shawnwilson.com

Presentation Category

06 MANAGING COMPLAINTS AND APPEALS

Session Description

Improve your chances for success in tax appeals by learning forensic techniques for expert testimony. Learn to better defend your single property value opinion by creating persuasive evidence packets and planning a focused outline for direct testimony.

5. Maximum Efficiency - Mass Appraisal Tools in Fast-Growing County (1 hour)

Maximum Efficiency - Mass Appraisal Tools in Fast-Growing County

<u>Erin M. Brady</u>, Ada County Assessor's Office, Idaho <u>Mark J. Southard</u>, Ada County Assessor's Office, Idaho <u>Kelly G. Cumming</u>, Ada County Assessor's Office, Idaho



Presentation Category

04 APPRAISING PROPERTY

Session Description

Idaho leads the nation in population growth and market appreciation. How does the CEAA-awarded Ada County Assessor's Office manage the increasing workloads rapid growth brings? Join us for a review of the powerful tools we've developed to get the job done, maintain standards and staff size, and save taxpayer money!

6. Multifamily Repurposing: Trend or Craze & How It Makes Sense (1 hour)

Multifamily Repurposing: Trend or Craze & How It Makes Sense

Kelby L. Collier AAS, Osceola County Property Appraiser, Florida

Follow

Presentation Category

04 APPRAISING PROPERTY

Session Description

With the multifamily market booming, increasing rents have had a significant effect when it comes to affordability. It has put pressure on the need for developers to find a creative way to supply multifamily housing that is affordable in an industry with rising land and construction costs.

7. Retail Space Trends, Valuing Lifestyle Centers, and Mixed-Use Villages (1 hour)

Retail Space Trends, Valuing Lifestyle Centers, and Mixed-Use Villages

Vision Government Solutions, Inc.

R. Lane Partridge MAA, Town of Barnstable, Massachusetts
Mike Tarello, Vision Government Solutions, Inc., Massachusetts



Speaker Website

http://vgsi.com

Presentation Category

04 APPRAISING PROPERTY

Session Description

This session will enhance the attendee's knowledge of the trends of the standard shopping centers and malls migrating into lifestyle centers and mixed-use villages, as well as more on the latest retail concepts. Valuation concerns will be addressed, and examples given of real-life scenarios including cost and income approaches.

8. The Status and Outlook of the U.S. Economy and Monetary Policy (1.5 hours)

The Status and Outlook of the U.S. Economy and Monetary Policy

<u>Dr. LaVaughn Henry Ph.D., CBE</u>, Formerly of the Council of Economic Advisers, The White House



Presentation Category

PLENARY

Session Description

This presentation will provide an detailed discussion of the current status, and projected changes, of the primary sectors and factors in the U.S. economy. Namely, it will detail trends in U.S. production and consumption patterns, the labor market, and consumer inflation. It will also delve into the Federal Reserve's monetary policy and the effects/implications of the Fed's actions to date and projected actions in the near term future.

9. The State of the Commercial and Residential Real Estate Markets (1 hour)

The State of the Commercial and Residential Real Estate Markets

<u>Dr. LaVaughn M. Henry Ph.D., CBE</u>, Formerly of the Council of Economic Advisers, The White House



Presentation Category

04 APPRAISING PROPERTY

Session Description

Dr. Henry will discuss the current state of both the commercial and residential real estate market.

10. Small Mixed-Use and Residential Investment Appraisal and Appeal (1 hour)

Small Mixed-Use and Residential Investment Appraisal and Appeal

Bruce Witt, Tyler Technologies, Ohio



Presentation Category

04 APPRAISING PROPERTY

Session Description

This session will cover the challenging appraisal of small mixed-use and residential investment properties. We will be reviewing how an investor looks at real estate, using the sales comparison, cost, and income approaches on these properties, using the gross rent multiplier and gross income multiplier, and exploring income approach examples.

11. The PRB: An Unbiased Approach to Measuring Vertical Equity (1 hour)

The PRB: An Unbiased Approach to Measuring Vertical Equity

Robert Gloudemans FIAAO, Almy, Gloudemans, Jacobs & Denne,

Follow

<u>Arizona</u>

Speaker Website

agjd.com

Presentation Category

08 OVERSIGHT AND COMPLIANCE REVIEW

Session Description

All jurisdictions are facing increased scrutiny of assessment accuracy and uniformity, particularly as it relates to price-related bias (PRB). This session will explain use, interpretation, advantages, and limitations of the coefficient of PRB, which is contained in IAAO courses and literature and provides a balanced, unbiased approach to measuring vertical equity.

12. PAVE: The Connection Between Eliminating Bias and An Assessor's Work (1 hour)

PAVE: The Connection Between Eliminating Bias and An Assessor's Work

<u>David Berenbaum</u>, US Dept of Housing and Urban Development, Washington D.C.



Presentation Category

PLENARY

Session Description

Appraisal bias is a pervasive issue that contributes to the widening wealth gap in many communities of color across America. The average Black and Latino families have, respectively, one tenth and one-eighth of the wealth of the average White family. On June 1, 2021, the centennial of the Tulsa Race Massacre, President Biden announced the creation of the Interagency Task Force on Property Appraisal and Valuation Equity (PAVE) to address this issue head on by establishing a transformative set of actions to root out racial and ethnic bias in home valuations. During its initial phase, the Task Force heard from several tax assessors, many of whom emphasized the need for enhanced data sharing. Since that time, thirteen federal cabinet-level and independent agencies have released the PAVE Action Plan which, when enacted, represents the most wide-ranging set of reforms ever put forward to advance equity in the home appraisal process. Join this session to learn about appraisal bias, the work of PAVE, and the federal achievements already delivered and underway to increase the availability and diversity of appraisers, make federal appraisal data available, and to ensure that every American who buys a home has the same fair and impartial opportunities to build generational wealth through homeownership.

13. No Sales. No Problem (1 hour)

No Sales, No Problem

Jake Parkinson, Tooele County, Utah



Presentation Category

04 APPRAISING PROPERTY

Session Description

Instruct assessors with real-world data how to value properties in areas with limited sales data using trending techniques.

14. An Analytical Take on Mass Appraisal in the UK (1.5 hour)

An Analytical Take on Mass Appraisal in the UK

Andy Grayson, Valuation Office Agency, United Kingdom Rob Dickinson, Valuation Office Agency, United Kingdom



Presentation Category

04 APPRAISING PROPERTY

Session Description

Find out how analysts are approaching mass appraisal in the UK. This session will give an overview of the work of a new team of analysts and valuers that has been established at the Valuation Office Agency, focussing on the different modelling methodologies utilised and our experiences of these.

15. Valuation of Renewable Energy (1.5 hours)

Valuation of Renewable Energy

<u>Bradley A. Eldridge CAE, MAI</u>, Douglas County Appraiser's Office, Kansas Follow

Kara Enidcott CAE, RES, RMA, Johnson County Appraiser's Office,

Follow

Kansas

Presentation Category

04 APPRAISING PROPERTY

Session Description

This session explores the valuation concepts and issues in this growing field. Initially, these types of properties received tax incentives that exempted the property from property taxes. These facilities are now transitioning to the tax roll and many states are revising their treatment of this property type. This workshop will review the various types of renewable energy facilities, how to handle listing them on the tax roll, and strategies for developing accurate valuations.

16. Bringing Market Analytics to Life (1 hour)

Bringing Market Analytics to Life

Brent C. Hudson, Municipal Property Assessment Corporation, Ontario, Canada Follow

Presentation Category

02 COLLECTING AND MAINTAINING PROPERTY DATA

Session Description

Market activity in many jurisdictions continues to present challenges in monitoring and forecasting. During this session, learn about the experience in Ontario, Canada with building a customized Market Trends Dashboard to support valuation staff across the organization. Providing the assessor with an interactive dashboard that leverages Amazon Web Services facilitates market research and stakeholder engagement through sales trends analysis of a number of property types.

17. Portability of Regression Models (1 hour)

Portability of Regression Models

Kevin Keene, Keene Mass Appraisal Consulting, Pennsylvania

Follow

Speaker Website

keenemac.com

Presentation Category

04 APPRAISING PROPERTY

Session Description

An examination of the use of model specifications, transformations or coefficients from one market to another. Much of the discussion is around the uniqueness of each market, and the need to understand how the relative importance of attributes, market dynamics and the relationship between model constants and adjustments make present difficulties in using model written for one market in a different market.

18. <u>The Assessment Jurisdiction of the 21st Century in Ireland and Ontario, Canada (1 hour)</u>

The Assessment Jurisdiction of the 21st Century in Ireland and Ontario, Canada

<u>Greg Martino</u>, Municipal Property Assessment Corporation, Ontario, Canada Follow

Liam Butler, Tailte Eireann, Ireland

Follow

Presentation Category

05 LEADING AND MANAGING THE ASSESSMENT OFFICE

Session Description

A tale of best practices and shared experiences from jurisdictions in Ireland and Ontario, Canada.