THE VALUATION OF APARTMENTS

By Tim Klein & Dan Blonigen

Goals of this course

 Introduction to the basic concepts of Apartment Valuation

You will leave with the ability to value an apartment in your jurisdiction!

Outline

- What is an apartment
- The Inspection
- Valuation
 - Sales Verification & Comparison
 - Income Capitalization
- Mass Appraisal Techniques
- Case Study
- Q & A

Current Market

- 32% of US Households are Renters NMHC
- 30% of Apartment renters are under age 30, 58% under age 44 -NMHC
- Represents 38% of new housing starts US
 Census, May 2014
- "Minneapolis-St. Paul, one of the strongest rental markets in the nation." – Marcus Millichap 2014

4th in the Nation – Marcus Millichap

National Apartment Index

MSA	Rank 2014	Rank 2013 ¹	13-14 Change	
New York City	1	1	0	
San Francisco	2	3	▲ 1	
Denver	3	11	8	
Minneapolis	4	7	▲ 3	
San Diego	5	6	▲ 1	
Northern New Jersey	6	8	▲ 2	
Seattle-Tacoma	7	5	▼ 2	
San Jose	8	2	▼ 6	
Oakland-East Bay	9	18	▲ 9	
Portland	10	12	▲ 2	
Orange County	11	4	▼ 7	
Houston	12	13	▲ 1	
Miami	13	21	8	
Dallas/Fort Worth	14	14	0	

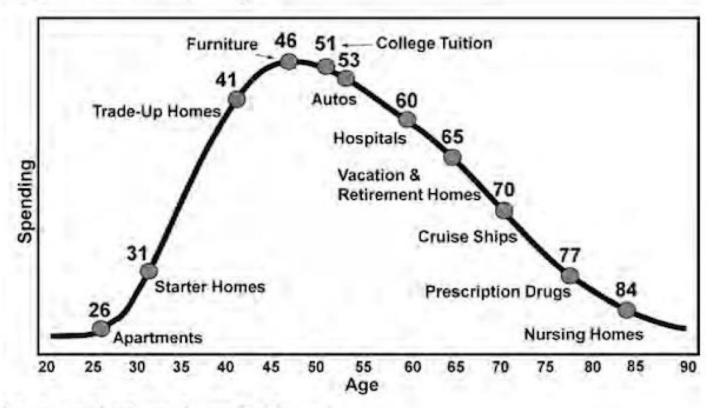
Cap Rates

- National
 - Korpacz 1Q '13: Average 5.73%
 - Korpacz 1Q '14: Average 5.79%

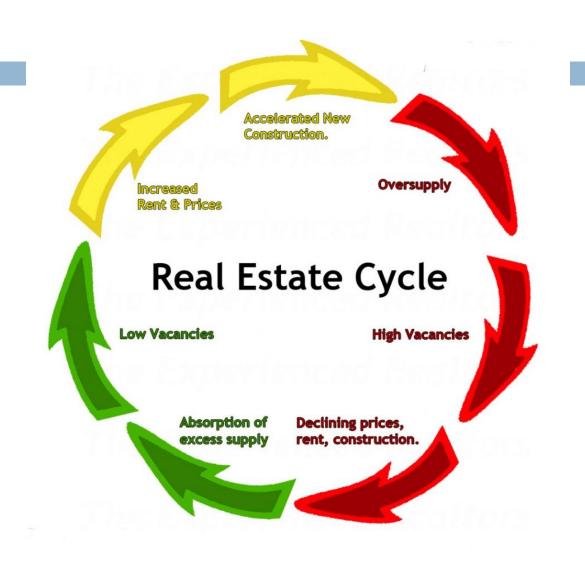
- Minneapolis
 - RERC 1Q '13: Average 6.0%

Consumer Life Cycle

Figure 1-1: Consumer Life Cycle



Data Source: U.S. Census Bureau, Dent Research



What is an Apartment

What is an Apartment

- An <u>Apartment</u> is a housing unit of one or more rooms, designed to provide complete living facilities for one or more occupants.
- An <u>Apartment Building</u> is a structure containing four or more dwelling units with common areas and facilities.
- <u>Common Area</u> includes entrances, lobby, elevators or stairs, mechanical space, grounds, pool, etc...

Apt Styles-Low Rise

- Typically 1 -3 stories
- No elevators
- 12-50 units
- Intermediate density



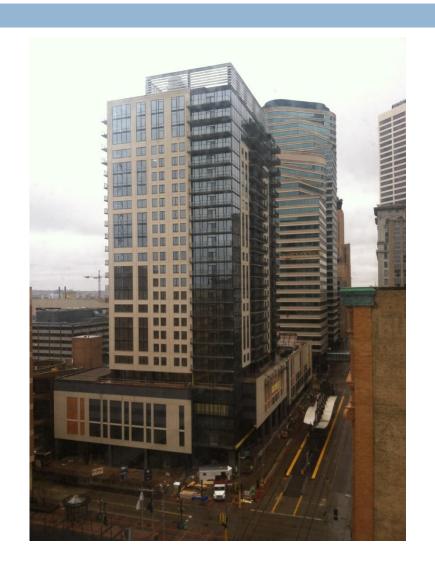
Apt Styles- Mid Rise

- Usually steel or reinforced concrete
- 4-10 stories
- Elevator service
- Intermediate density



Apt Styles- High Rise

- Steel or reinforced concrete
- More than 10 stories
- Elevator service
- High density
- Usually in urban core



Apt Styles- Garden Apartments

- Usually 2-3 stories
- Wood frame construction
- Landscaped sites
- Low density
- Extensive amenities (Pool, clubhouse)



Apt Styles- Townhome Style

Larger units

Often two floors

Usually 2-4 stories



Can be garden or high density

Apt Styles- Townhome Style

Garden Style Townhome

High Density – 4 story





Student Housing

Higher Bedroom count

Multiple leases

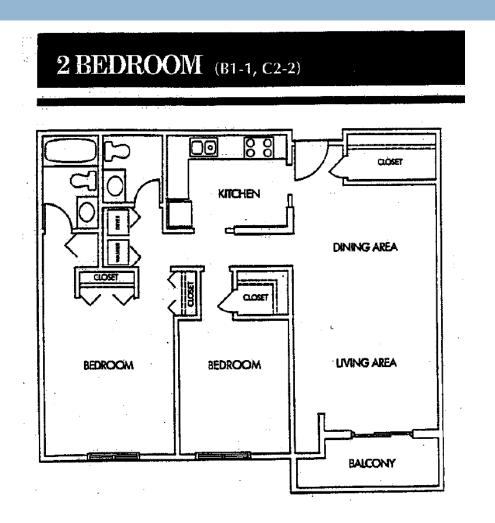
Shorter lease terms



Types of Units

- Studio/Efficiency
- 1 Bedroom
- 2 Bedroom
- 3 Bedroom
- 4 Bedroom
- Plus Den

Unit Mix



Amenities

- Unit Amenities
 - Refrigerator
 - Range/Oven with Hood Fan
 - Dishwasher
 - Microwave
 - Garbage Disposal
 - Washer/Dryer
 - Hardwood Floors
 - Stainless Steel Appliances
 - Ceiling Fans
 - Walk in Closets

Amenities

- Complex Amenities
 - Community Room/Pub Room/Private Resident Bar
 - Business Center
 - Indoor/Outdoor Pool/Spa
 - Lobby/Concierge Services
 - Fitness Center/Yoga Studio
 - Dog Park/Dog Wash Stations
 - Laundry Rooms
 - Garages
 - Storage Units
 - Playground/Sports Facilities
 - Retail Space
 - Car Wash/Hour Car

Uniform Apartment Classification

- Class AA, A, B, C, D
 - In practice, Class A, B & C

- Determined by
 - Rental Rates
 - Occupancy
 - Age/Condition
 - Construction Quality
 - Location

Uniform Apartment Classification

TABLE 1 Uniform Apartment Classification

Method to Classify Apartment Compl	Class AA	Class A	Class B	Class C	Class D
Characteristics	(MCS)	(MCS)	(MCS)	(MCS)	(MCS)
Rent rank (dollars per square foot)	90%	80%	50%	20%	0%
Percent of occupancy*	Excellent	Very good	Average	Fair	Poor
2. A _{ge}	0-10 years	0-10 years	0-20 years	0-30 years	Any age
Condition	Excellent	Very good	Average	Fair	Poor
3. Construction					
Size (number of units)	120 or more	100 or more	80 or more	any	any
Construction quality	Excellent	Very good	Average	Fair	Poor
Exterior appeal	Excellent	Very good	Average	Fair	Poor
Interior appeal	Excellent	Very good	Average	Fair	Poor
Functional utility	Excellent	Very good	Average	Fair	Poor
Heating, ventilation, and air conditioning (HVAC) (central					
system)	Excellent	Very good	Average	Fair	Poor
Layout and floor plans	Excellent	Very good	Average	Fair	Poor
Landscaping	Excellent	Very good	Average	Fair	Poor
Parking spaces (on-site)	Excellent	or more/BR	or more/BR	1 or more/Unit	not required
Recreation area	yes	yes	not required	not required	not required
Amenities in units	10 or more	8 or more	6 or more	not required	not required

^{*}Appraisal Journal, Classifications for Commercial Real Estate, 1992

Class AA



Under Construction

Class A



Built: 2007

Class A

High End Amenity Package





Class B



Built: 1988

Class B





Class C



Built: 1967

Class C Property





Inspecting the Property

Inspecting the Property

- Units
 - Representative sample
- Common Areas
 - Laundry, workout rooms, basement parking, mechanical systems etc..
- Exterior
 - Garages
 - Recreational Amenities
- Interview Property Manager

Inspecting the Property – Prop Manager

- Unit Floor Plans
- Unit Counts
- Current Vacant
- Concessions
- Tenant Paid Utilities
- DeferredMaintenance

1 Bedroom 1 Bath Garden ~ 704 Square Feet



Inspecting the Property - Units

- Kitchen
- Bedrooms
- Bathroom
- Storage Space
- Patio/Deck
- Heating/cooling
- Washer/Dryers



Take pictures!

Inspecting the Property – Common Area

Outdoor

Indoor





Inspecting the Property – Common Area

In Unit Laundry



Common Laundry



Inspecting the Property – Common Area

Dated

Modern





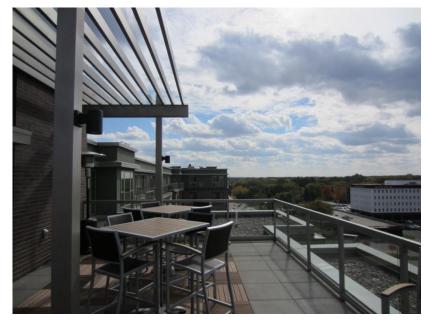
Dated

Modern





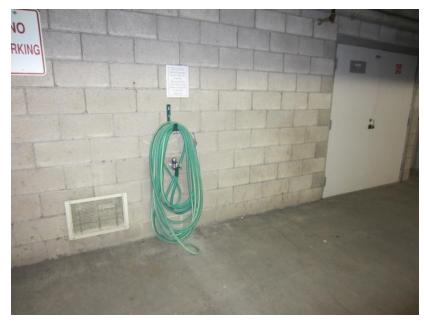




Underground Parking



Car Wash



Common Heat

Separate Utilities

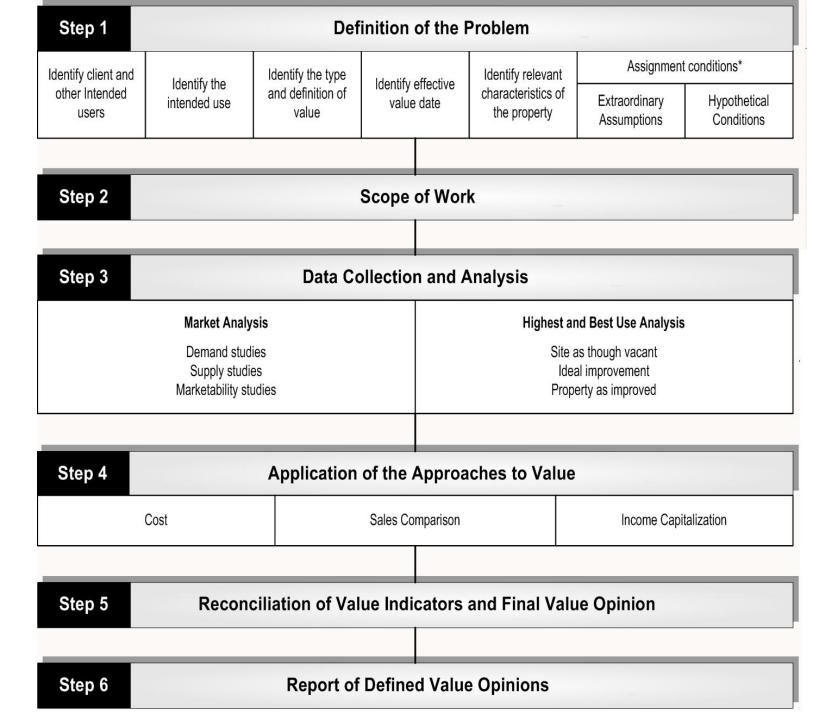




Inspecting the Property - Maintenance Items

- Roof
- Elevators
- HVAC
- Parking lot

The Approaches to Value



The Appraisal Process

- Identifying the scope of work
- Defining the appraisal problem
- Underlying analyses
- Applying the appraisal approaches
 - Sales Comparison Approach
 - Income Approach
- Reconciliation of Value

Sales Comparison Approach

Sales Comparison Approach

- (also known as the market approach): A method which can be utilized to estimate the market value of a property by making a comparative study of recent sales for which offers to purchase have been made.
- A major premise of the sales comparison approach is that the market value of a property is directly related to the prices of comparable, competitive properties which have similar utility to that of the subject property.

Sales Comparison Approach

- The <u>principle of substitution</u> applies to the sales comparison approach holds that the value of a property tends to be set by the price that would be paid to achieve a substitute property of similar utility and desirability.
- The principle implies that the reliability of the sales comparison approach is diminished if substitute properties are not available in the market.

Procedure for Applying the Sales Comparison Approach:

- Research the market for properties that are similar to the subject that have recently sold, are listed for sale, or under contract to sell.
- Consider the characteristics of the properties such as property type, date of sale, size, physical condition, location, and land use constraints.
- The goal is to find a set of comparable sales as similar as possible to the subject property to ensure they reflect the actions of similar buyers.

Procedure for Applying the Sales Comparison Approach:

Verify the information by confirming that the date obtained is factually accurate and that the transactions reflect arm's-length, market considerations. Verification should elicit additional information about the property and the market so that the comparisons are credible.

Select the most relevant unit of comparison for the market and develop a comparative analysis.

Procedure for Applying the Sales Comparison Approach:

Look for differences between the subject property and comparable and then make appropriate adjustments to each comparable.

 Reconcile the adjusted sales prices into a single value indication.

Researching Comparables:

 Research sales through databases, county data, talking with area brokers, reviewing offering memorandums, etc.

 Start with a larger set of comparables and narrow it down to a smaller set.

Verification Process:

- Talk with the buyer, seller, broker/agent, property manager, and/or representative of the property.
- Verify all property characteristics:
 - Sales Date
 - Sales Price
 - Buyer/Seller
 - Financing
 - Unusual Conditions/Did sales price represent market value

Verification Process:

- Verify all property characteristics:
 - Buyer incurred or planned expenditures after sale (deferred maintenance such as roof repair, parking lot repair, HVAC repair, etc.
 - Physical Characteristics: Unit mix breakdown with unit sizes, condition, amenities, parking stalls (parking rent), utilities tenants pay, etc.
 - Financial information-rents, vacancy, PGI, EGI, operating expenses or ratio, and capitalization rate.
 - Physically inspect comparables, aerials, pictures.

Name: Westwood Gardens

Location: 2525 Nevada Ave S

St. Louis Park, MN

Property ID No.: 08-117-21-24-0009; 0007; 0004

□ Sale Date: January 10, 2014

Buyer: Sela InvestmentsSeller: Sidal Realty Co.

□ Land Area: 239,491square feet, or 5.49 acres

□ Age: 1967

Gross Building Area: square feet

Land/Building Ratio:

Stories: 2 story plus garden level

□ No. of Units: 152

Units/Acre: 27.6 units per acre

Construction: Wood frameSale Price: \$11,430,000

Occupancy at Sale:

□ Price/Unit: \$75,197

Terms of Sale: Cash

Gross Rent multiplier:

Indicated Cap Rate: 6.5% cap on buyers pro forma (w/ reserve)

% based on trailing 12 month activity



Types of Adjustments

- Property Rights Conveyed
- Financing
- Conditions of Sale
- Expenditures after Sale
- Age/Condition
- Quality
- Amenities
- Unit Mix
- Location

Reconciliation of Value

Look at the range of comparables.

Which were the best comparables.

 Reconcile value based upon unit of comparison.

Example: Property Summary Chart

COMPARABLE SUMMARY CHART											
Property Name/Location	Sale Month				t Mix Number	Sale Price Per Unit	Number of Garage Stalls	Year Built Age at Sale		Adj. NOI Per Unit ¹	Adj. Cap. Rate ¹
Comparable #1	3	2014	\$2,600,000	Studio 1 BR	0 26	\$43,333	30	Year Built	1979	\$3,358	7.75%
				2 BR 3 BR Total	18 <u>16</u> 60			Age at Sale	35		
Comparable #2	1	2014	\$2,080,000	Studio 1 BR	0 20	\$46,222	32	Year Built	1983	\$4,044	8.75%
				2 BR 3 BR Total	20 <u>5</u> 45			Age at Sale	31		
Comparable #3	12	2013	\$1,400,000	Studio 1 BR	0 10	\$46,667	30	Year Built	1981	\$3,967	8.50%
				2 BR 3 BR Total	12 <u>8</u> 30			Age at Sale	32		
Comparable #4	11	2013	\$2,500,000	Studio 1 BR	0 20	\$41,667	30	Year Built	1990	\$3,333	8.00%
				2 BR 3 BR Total	30 <u>10</u> 60			Age at Sale	23		
Comparable #5	9	2013	\$1,500,000	Studio 1 BR	0 10	\$46,875	10	Year Built	1982	\$3,633	7.75%
				2 BR 3 BR Total	12 <u>10</u> 32			Age at Sale	31		
Subject	5	2014		Studio 1 BR	0 15		25	Year Built	1981	\$3,600	8.25%
				2 BR 3 BR Total	15 <u>15</u> 45			Age at Sale	33		

Example: Adjustment Summary

	COMPARABLE IMPROVED PROPERTY SALES ADJUSTMENT SUMMARY													
	Sale	Property		Cond.	Expend.	Market	Preliminary					Location/	Net	Adj. Sale
	Price	Rights	Financing	of Sale	After Sale	Cond.	Price	Age	Garage	Amenities	Size	Income	Net	Price
No	Per Unit	Conv. Adj.	Adj.	Adj.	Adj.	Adj.	Per Unit	Adj.	Adj.	Adj.	Adj.	Gen. Adj.	Adj.	Per Unit
1	\$43,333	0%	0%	0%	0%	0%	\$43,333	11%	1%	0%	0%	0%	12%	\$48,533
2	\$46,222	0%	0%	0%	0%	0%	\$46,222	-1%	-2%	0%	0%	-9%	-12%	\$40,675
3	\$46,667	0%	0%	0%	0%	0%	\$46,667	0%	-5%	0%	0%	-5%	-10%	\$42,000
4	\$41,667	0%	0%	0%	0%	0%	\$41,667	-3%	1%	0%	0%	8%	6%	\$44,167
5	\$46,875	0%	0%	0%	0%	0%	\$46,875	9%	3%	0%	0%	-1%	11%	\$52,031
	\$41,667	MIN											MIN	\$40,675
	\$44,953	MEAN											MEAN	\$45,481
	\$46,875	MAX											MAX	\$52,031

VALUE CONCLUSION

45 Units X \$45,000 Per Unit = \$2,025,000 Rounded: \$2,030,000

Final Thoughts?

 Reliability of the Sales Comparison Approach in Valuing Apartments.

The Income Approach

The Income Approach

An appraiser analyzes a property's capacity to generate <u>future</u> income benefits and capitalizes the income into an indication of value.

The principle of <u>anticipation</u> is fundamental...

 Process of converting a single year's income into an indication of value

- NOI (Net Operating Income)
- Divided by
- Capitalization Rate

=VALUE

8 – Unit Apt



Direct Cap

- \square NOI = \$33,000
- Divided by
- \Box Cap = 8.25%

- Calculate the value
 - **\$400,000**

- PGI (Potential Gross Income)
- Vacancy
- EGI (Effective Gross Income)
- Expenses
- NOI (Net Operating Income)
- Divided by
- Capitalization Rate
- =VALUE

8 – Unit Apt



Calculate NOI

- □ \$70,000 (PGI)
- -5,000(Vac)
- □ \$65,000 (EGI)
- -\$32,000(Expenses)
- \square NOI = \$33,000

Direct Capitalization Approach

General procedure to valuing property via the direct capitalization approach

- Step 1: Determine market rents
- Step 2: Determine and apply market vacancy and credit loss
- Step 3: Determine any additional ancillary income
- Step 4: Project stabilized operating expenses
- Step 5: Project market capitalization rate
- Step 6: Capitalize Net Operating Income

Rent Definitions

MARKET RENT

 The most probable rent that a property should bring in a competitive and open market.....

CONTRACT RENT

The actual rent specified in a lease

Market rent vs Contract Rent-the relationship is similar to that of sale price and market value.

Rent Definitions

- Effective Rent is rental rate net of financial concessions (free rent).
 - Example \$1000/mo for 12 month; 1 Mo free.
 Effective rent = \$916/mo.

 Rent Roll is a report indicating the rent paying status of each tenant

Rent Roll

Unit	Resident Name		Rent
310	Brettingen	\$	995.00
	4/30/2013		
	1 garage		
311	Soholt, Alf & June	\$	995.00
	5/31/2013		
	1 garage		
312	Anderson, Harlan/Theresa	\$	995.00
	10/31/2013		
313	Leino, Samuel & Carol	\$	995.00
	9/30/2013		
314	Bell, Ralph Jr. / Blair, Scott	\$	1,000.00
	5/31/2013		
315	Gross / Johnson	\$	995.00
	11/30/2013		
		ţ	

Sources of Market Rent

- Historical and current rent at subject
- Review most recent leases from rent roll

- Survey rent comparables
 - Asking Rents
- Market reports or surveys
 - GVA Marquette Advisors

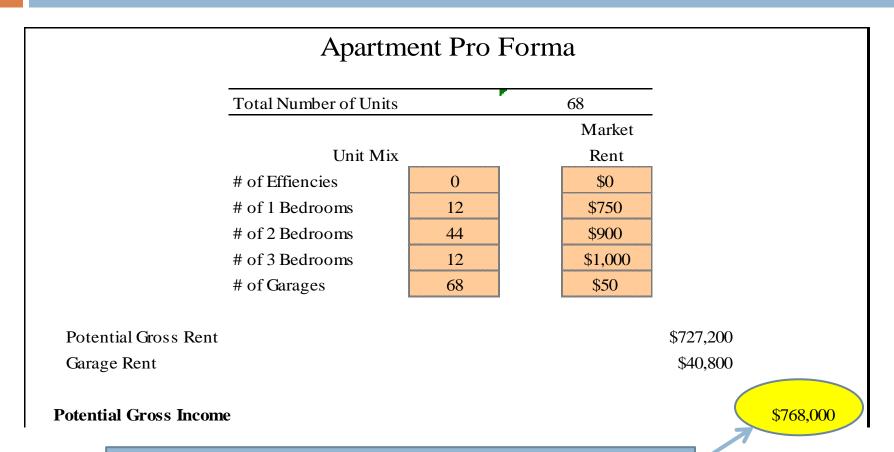
Rent Comparables

- Units of Comparison
 - Rent per unit
 - Rent per square foot (per month)
 - Rent per room (student housing)
- Adjust for:
 - Included Amenities
 - Included Utilities
 - Concessions

Apartment Rent Comparables

Combarable #	SUBJECT	#1	#2	#3	
Address	123 1st Street N	125 1st Street N	1000 Oak Drive	450 Main Street	
City	New Hope	New Hope	New Hope	New Hope	
Year Built	1961	1971	1969	1971	
# Units	68	70	44	79	
Occupancy	98%	100%	92%	95%	
Data Month/Year	Jan-13	Jan-13	Jan-13	Jan-13	
AMENITIES					
	Range/oven, Refrig., D/W, Disposal, Wall A/C	Range/oven, Refrig., D/W, Wall A/C	Range/oven, Refrig., D/W, Disposal, Wall A/C	Range/oven, Refrig., D/W, Disposal, Wall A/C	
	Community room,	Community room,	Outdoor pool,	Community room,	
	fitness center,	fitness center,	Community room,	fitness center,	
	storage, elevator	storage, elevator	storage, elevator	storage, elevator	
UNIT TYPES					
1 Bedroom					
# 1BRs	12	32	10	30	
Size	700	700	675	700	
Rent	\$ 750	\$ 725	\$ 750	\$ 750	
Rent PSF	\$ 1.07	\$ 1.04	\$ 1.11	\$ 1.07	
2 Bedroom					
# 2BRs	44	32	24	30	
Size	850	900	800	825	
Rent	\$ 900	\$ 925	\$ 900	\$ 900	
Rent PSF	\$ 1.06	\$ 1.03	\$ 1.13	\$ 1.09	
3 Bedroom					
# 3BRs	12	6	10	19	
Size	1,000	975	1,000	1,100	
Rent	\$ 1,000	\$ 975	\$ 1,025	\$ 1,050	
Rent PSF	\$ 1.00	\$ 1.00	\$ 1.03	\$ 0.95	
CONCESSIONS	None	None	\$300 off 1st month	None	

Apartment PGI



Sum of total income to the real property at full occupancy

Direct Capitalization - PGI

8 – Unit Apt



Calculate PGI

- 8 x 2BR Units
- \$730 /month

- Calculate PGI
 - \Box 730 x 8 x 12 =
 - □ PGI = 70,080

Income Capitalization Approach

General procedure to valuing property via the direct capitalization approach

- Step 1: Determine market rents
- Step 2: Determine and apply market vacancy and credit loss
- Step 3: Determine any additional ancillary income
- Step 4: Project stabilized operating expenses
- Step 5: Project market capitalization rate
- Step 6: Capitalize Net Operating Income

 Vacancy and Collection Loss - a deduction from PGI made to reflect income reductions due to vacancies, tenant turnover, and nonpayment of rent

- Often expressed as a percentage of PGI
 - Ex 5% of PGI vacancy & .5 to 1% collection loss
- Should reflect the competitive market

How to determine market Vacancy...

- Historical and current subject occupancy
- Comparable property analysis
- Market Surveys
 - GVA Marquette Advisors
- Broker Discussions

 Usually a strong relationship between rent levels and vacancy

Combarable #	SUBJECT	#1	#2	#3
Address	123 1st Street N	125 1st Street N	1000 Oak Drive	450 Main Street
City	New Hope	New Hope	New Hope	New Hope
Year Built	1961	1971	1969	1971
# Units	68	70	44	79
Occupancy	98%	100%	92%	95%
Data Month/Year	Jan-13	Jan-13	Jan-13	Jan-13

Occupied 252

Total Units261

Vacancy indicated by subject and rent comparables: 3.4%

Twin Cities Metro Area	Unit Type	Units Surveyed	Units Vacant	Avg Rent 3/2013	Avg Rent 3/2012	% Change	Vacancy 3/2013	Vacancy 3/2012	Change
	Studio	5,320	147	\$727	\$687	5.7%	2.8%	2.6%	0.1%
	One Bedroom	49,307	1,208	\$843	\$812	3.7%	2.4%	2.7%	-0.2%
	One + Den	2,291	68	\$1,159	\$1,121	3.4%	3.0%	2.6%	0.3%
	Two Bedroom	48,092	1,426	\$1,048	\$1,015	3.2%	3.0%	2.9%	0.1%
	Two + Den	1,071	46	\$1,474	\$1,445	2.0%	4.3%	3.5%	0.8%
	Three Bedroom	5,990	184	\$1,332	\$1,294	2.9%	3.1%	3.4%	-0.3%
	Three Den/Four	312	12	\$1,692	\$1,633	3.6%	3.8%	6.6%	-2.7%
	Total	112,383	3,091	\$966	\$935	3.3%	2.8%	2.8%	-0.1%
New Hope	Unit Type	Units Surveyed	Units Vacant	Avg Rent 3/2013	Avg Rent 3/2012	% Change	Vacancy 3/2013	Vacancy 3/2012	Change
	Studio	12	0	\$632	\$630	0.2%	0.0%	8.3%	-8.3%
	One Bedroom	710	6	\$740	\$705	5.0%	0.8%	2.5%	-1.7%
	Two Bedroom	686	5	\$870	\$836	4.1%	0.7%	2.9%	-2.2%
	Three Bedroom	65	1	\$1,123	\$1,093	2.7%	1.5%	1.5%	0.0%
	Total	1,491	12	\$817	\$783	4.3%	0.8%	2.7%	-1.9%

• The projected vacancy of 3.4% appears to be reasonable and supported by market data.

Income Capitalization Approach

General procedure to valuing property via the direct capitalization approach

- Step 1: Determine market rents
- Step 2: Determine and apply market vacancy and credit loss
- Step 3: Determine any additional ancillary income
- Step 4: Project stabilized operating expenses
- Step 5: Project market capitalization rate
- Step 6: Capitalize Net Operating Income

Other Income

- Any miscellaneous additional income attributable to the subject property
- Examples:
 - Laundry
 - Vending Machines
 - Parking
 - Late fees
 - Forfeited deposits
 - Utility Charge-backs Garbage, sewer water, etc..
- Can be a % of PGI or \$/unit

Other Income

- Any miscellaneous additional income attributable to the subject property
- Examples:
 - Laundry
 - Vending Machines
 - Parking
 - Late fees
 - Forfeited deposits
 - Utility Charge-backs Garbage, sewer water, etc..
- Can be a % of PGI or \$/unit

Other Income

REVENUE Rental Income Residential Rent Residential Vacancy	3200 3210	29,610.00 (725.00)	29,610.00 (725.00)	29,656.61 (2,601.61)	28,380.00 (1,275.00)	29,855.00 0.00	29,800.50 (867.66)	29,005.18	29,284.52 (1,064.52)	28,065.00 0.00	29,310.00 (1,520.00)	28,815.00 (725.00)	28,889.19 0.00	,
Total Rental Income		28,885.00	28,885.00	27,055.00	27,105.00	29,855.00	28,932.84	29,005.18	28,220.00	28,065.00	27,790.00	28,090.00	28,889.19	340,777.21
Other Income														
Garage Rent	3300	475.00	500.00	600.00	480.00	560.00	490.00	520.00	480.00	300.00	380.00	420.00	420.00	5,625.00
Bad Debt Recovery	3605	0.00	0.00	0.00	0.00	0.00	0.00	0.00	50.00	100.00	0.00	68.53	0.00	218.53
Cleaning & Damages Income	3615	0.00	0.00	623.21	860.00	260.00	794.00	0.00	130.00	200.00	2,320.00	0.00	0.00	
Court/Legal Charges	3620	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	420.00	420.00
Late/NSF Fees	3630	100.00	250.00	200.00	0.00	95.00	200.00	100.00	200.00	150.00	900.00	400.00	150.00	2,745.00
Miscellaneous Income	3645	175.00	175.00	175.00	580.00	175.00	175.00	175.00	(445.00)	175.00	175.00	175.00	100.00	1,810.00
Pet Income	3655	350.00	350.00	930.00	280.00	320.00	295.00	335.00	340.00	310.00	290.00	305.00	305.48	4,410.48
Total Other Income		1,100.00	1,275.00	2,528.21	2,200.00	1,410.00	1,954.00	1,130.00	755.00	1,235.00	4,065.00	1,368.53	1,395.48	20,416.22
TOTAL REVENUE		\$29,985.00	\$30,160.00	\$29,583.21	\$29,305.00	\$31,265.00	\$30,886.84	\$30,135.18	\$28,975.00	\$29,300.00	\$31,855.00	\$29,458.53	\$30,284.67	\$361,193.43

Effective Gross Income

- Potential Gross Income (PGI)
 - Deduct market vacancy
 - Deduct credit loss
 - Add Other Income
- Effective Gross Income (EGI)

Income Capitalization Approach

General procedure to valuing property via the direct capitalization approach

- Step 1: Determine market rents
- Step 2: Determine and apply market vacancy and credit loss
- Step 3: Determine any additional ancillary income
- Step 4: Project stabilized operating expenses
- Step 5: Project market capitalization rate
- Step 6: Capitalize Net Operating Income

Operating Expenses

OPERATING EXPENSES

The periodic expenditures necessary to maintain the real property and continue production of the EGI, assuming prudent and competent management

Expenses

FIXED

Expenses that generally do not vary with occupancy

- Real Estate Taxes
- Insurance

VARIABLE

Expenses that generally vary with the level of occupancy

- Management
- Utilities
- Payroll
- Repairs & Maintenance
- Administration
- Professional Services

Owners Income Expense

Owner's Information (from CPA)	
Management (including manager's 1-bedroom apartme	nt) \$5,000
Insurance (3 years premiums)	\$31,461
Real estate taxes	\$10,206
Maintenance	\$6,991
Common utilities	
Electric	\$2,097
Gas	\$1,049
CATV	\$0
Water & sewer	\$1,398
Debt service	\$62,563
Automobile expense	\$1,600
Depreciation	\$19,701
Miscellaneous (incl. admin/tel/office)	\$2,097
Owner's salary(owner does maintenance)	\$25,000
Total	\$169,163

Non-Allowable Expenses

Depreciation

Capital Improvements

Owner's Personal Expenses

Debt Service

Expenses – Real Estate Taxes

Allowable Expense but...

- Can be handled two ways
 - As a line item expense
 - Loading the cap rate with Effective Tax Rate
- MN Tax Court dictates a Loaded Cap

Expenses – Loaded Tax Rate

- Effective Tax Rate
 - RE Taxes divided by
 - Assessed Value

- Cap Rate
- + Effective Tax Rate
- =Built Up Cap Rate

Calculations

- □ \$39,000 taxes
- \$2,000,000 value
- Equals 1.95% ETR
- 7.5% cap rate
- □ 1.95% ETR
- 9.45% Built up rate

Replacement Allowance

An allowance that provides for the periodic replacement of building components that wear out more rapidly than the building itself and must be replaced during the building's economic life; sometimes referred to as reserves

Example: Roof is replaced every 20 yrs at a cost of \$40,000.

Expenses

OPERATING EXPENSE RATIO

 The ratio of total operating expenses, excluding debt service, to either potential or effective gross income

- Most commonly expressed as a ratio to EGI or PGI
 - Consistency is key

Owners Income Expense

54 UNITS PERIOD ENDING DECEMBER 31, 2011

INCOME:		
APART POTENTIAL	615,711	103.46%
LAUNDRY	1,583	0.27%
INSURANCE PROCEEDS	0	0.00%
RENT CREDIT	(10,476)	-1.76%
SECURITY DEPOSIT	(208)	-0.03%
VACANCY LOSS	(11,493)	-1.93%
	595,117	100.00%
OPERATING EXPENSES:		
GAS/ELECTRIC	26,323	4,42%
SEWER/WATER	25,694	4.32%
TELEPHONE	2,896	0.49%
TRASH	6,716	1.13%
ELEVATOR	7,021	1.18%
SUPPLIES	2,757	0.46%
REPAIR/MAINT	36,681	6.16%
PAINT/DECORATE	7,261	1.22%
SNOW/GROUNDS	18,209	3.06%
INSURANCE	17,166	2.88%
ADVERTISING	2,211	0.37%
SALARIES	29,004	4.87%
CLEANING SERVICE	7,687	1.29%
PROP MANAGEMENT	29,500	4.96%
PROFESSIONAL SERVICES	2,364	0.40%
ADMINISTRATION	2,365	0.40%
REAL ESTATE TAX	70,490	11.84%
	294,344	49.46%

% of EGI

NET OPERATING INCOME:

300,773

50.54%

Property Name Address		Exper	ise C	ompara	ables	
		LAPO.	100 0	ompare	40100	
City						
Year Built		00			120	
# Units		68			120	
Property Management						
Data Year						
Incomo	ANINILIAL	PER UNIT	9/ of ECI	ANNUAL	PER UNIT	9/ of ECI
Apartment Rent Received	\$540,556	\$7,949.35	109.22%		\$8,344.23	
-	\$250	\$3.68	0.05%		\$390.00	94.35% 4.41%
Garage Income	· · · · · · · · · · · · · · · · · · ·	·	-11.35%	\$46,800	(\$278.25)	-3.15%
Vacancy/Rent Loss Other Revenue	(\$56,174)	(\$826.09) \$151.62		(\$33,390) \$46,581		
Other Revenue	<u>\$10,310</u>	\$151.62	2.08%	<u>\$46,581</u>	<u>\$388.18</u>	4.39%
Total Income	\$494,942	\$7,278.56	100.00%	\$1,061,299	\$8,844.16	100.00%
Expenses	ΔΝΝΙΙΔΙ	PER UNIT	% of FGI	ANNUAL	PER UNIT	% of FGI
Utilities	\$51,271	\$753.99	10.36%	\$117,504	\$979.20	11.07%
Payroll	\$618	\$9.09	0.12%	\$139,580	\$1,163.17	13.15%
Building Repairs & Maintenance	\$113,790	\$1,673.38	22.99%	\$71,218	\$593.48	6.71%
Grounds Maintenance	\$11,400	\$167.65	2.30%	\$17,176	\$143.13	1.62%
Insurance	\$10,260	\$150.88	2.07%	\$39,828	\$331.90	3.75%
Management Fee	\$0	\$0.00	0.00%	\$55,109	\$459.24	5.19%
Real Estate Taxes	\$61,023	\$897.40	12.33%	\$124,165	\$1,034.71	11.70%
Marketing	\$617	\$9.07	0.12%	\$5,860	\$48.83	0.55%
Office/Administrative	\$4,303	\$63.28	0.87%	\$16,752	\$139.60	1.58%
Professional Services	\$8,121	\$119.43	1.64%	\$9,51 <u>5</u>	\$79.29	0.90%
. 10.00010.101	40,	••••••	1.10 .70	<u> </u>	<u> </u>	<u> </u>
Total Expenses	\$261,403	\$3,844.16	52.81%	\$596,707	\$4,972.56	56.22%
NET OPERATING INCOME	\$233,539	\$3,434.40	47.19%	\$464,592	\$3,871.60	43.78%
Total Expenses excluding RE Taxes	\$200,380	\$2,946.76	40.49%	\$472,542	\$3,937.85	44.52%
NOI excluding RE Taxes	\$294,562	\$4,331.79	59.51%	\$588,757	\$4,906.31	55.48%
		+ 1,001110	55.5176	+ + + + + + + + + + + + + + + + + + +	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	20070

Expenses (Surveys)

\$ Per Unit	\$ Per Sq. Ft.	% of GPR
11,008	12.02	100.0%
9,851	10.76	89.5%
674	0.74	6.1%
73	0.08	0.7%
410	0.45	3.7%
816	0.89	7.4%
10,667	11.65	96.9%
1,165	1.27	10.6%
222	0.24	2.0%
1,058	1.16	9.6%
533	0.58	4.8%
303	0.33	2.7%
243	0.27	2.2%
161	0.18	1.5%
305	0.33	2.8%
495	0.54	4.5%
4,485	4.90	40.7%
6,181	6.75	56.2%
	11,008 9,851 674 73 410 816 10,667 1,165 222 1,058 533 303 243 161 305 495 4,485	Unit Sq. Ft. 11,008 12.02 9,851 10.76 674 0.74 73 0.08 410 0.45 816 0.89 10,667 11.65 1,058 1.16 533 0.58 303 0.33 243 0.27 161 0.18 305 0.33 495 0.54 4,485 4.90

^{*2012} National Apartment Association Survey

Calculate Net Operating Income

Potential Gross Income			\$768,000
Less: Vacancy & Collection Loss	5.00%		(\$38,400)
Effective Gross Income			\$729,600
Operating Expenses (estimated as a % of EGI)			
Less: Management Fee	5.00%	(\$36,480)	
Less: Operating Expenses	38.00%	(\$277,248)	
Less: Reserves for Replacements	2.00%	(\$14,592.00)	
Total Operating Expenses	% of EGI	45.00%	(\$328,320)
Net Operating Income			\$401,280

Income Capitalization Approach

General procedure to valuing property via the direct capitalization approach

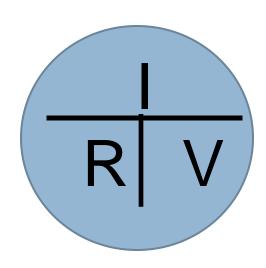
- Step 1: Determine market rents
- Step 2: Determine and apply market vacancy and credit loss
- Step 3: Determine any additional ancillary income
- Step 4: Project stabilized operating expenses
- Step 5: Project market capitalization rate
- Step 6: Capitalize Net Operating Income

CAPITALIZATION RATE (R)

Any rate used to convert income into value

□ Rate = Income/Value

Value = Income/Rate



How to derive a cap rate...

- Utilize market extracted cap rate comps
- Broker opinions
- Market surveys

Comparable Sale Scenario

- Sale Price:\$1,800,000
- □ NOI: \$120,600

- What's the overall cap rate?
 - **6.7%**

22 Unit Apartment Sale



Comparable Sale Scenario

Sale Price:\$1,000,000

□ PGI: \$100,000

□ Vacancy: 5%

□ Op. Exp: 25%

What's the overall cap rate?

14 Unit Apartment Sale



Keystrokes for HP 12c

Keystrokes for HP 12c

- \$100,000 (enter)
- □ 5 (%) (-)
- **25 (%) (-)**
- □ \$1,000,000 (÷)

0.0713 or 7.13% OAR

20 Unit Apartment Sale



RERC Real Estate Report

MINNEAPOLIS 2ND QUARTER 2012

Minneapolis I	Minneapolis Investment Criteria First-Tier¹ Investment Properties													
	Pro	e-Tax Yield (%)	Goin	Going-In Cap Rate (%)			Terminal Cap Rate (%)			Anticipated 1-Year Growth Rates			
	RERC Estimate	Midwest Region	U.S.	RERC Estimate	Midwest Region	U.S.	RERC Estimate	Midwest Region	U.S.	National Value	Midwest Value	National Rent	Midwest Rent	
Offc - CBD	8.9	9.4	9.2	7.3	7.8	7.5	8.0	8.5	8.2	1.7	1.2	1.6	0.9	
Offc - Suburban	9.5	9.8	9.6	7.8	8.3	8.0	8.4	8.8	8.6	1.0	0.3	0.8	0.1	
Ind - Warehouse	9.1	9.4	9.4	7.6	8.1	7.9	8.2	8.7	8.5	1.7	1.7	1.5	1.5	
Ind - R&D	9.4	9.7	9.7	8.0	8.4	8.2	8.5	8.9	8.7	1.2	0.9	1.0	0.6	
Ind - Flex	9.6	9.8	9.7	8.1	8.5	8.2	8.7	9.0	8.8	1.1	0.9	1.0	0.6	
Ret - Reg Mall	8.9	9.1	9.1	7.2	7.5	7.6	8.0	8.3	8.3	1.0	0.9	0.8	0.6	
Ret - Pwr Center	9.1	9.2	9.3	7.6	7.8	7.7	8.2	8.5	8.5	0.9	0.8	0.7	0.5	
Ret - Neigh/ Comm.	9.1	9.3	9.4	7.7	8.1	7.8	8.3	8.7	8.6	1.3	1.0	1.1	0.6	
Apartment	7.8	8.2	8.3	6.3	6.9	6.5	6.9	7.5	7.1	3.9	3.7	3.6	3.8	
Hotel	10.3	10.4	10.4	8.7	8.8	8.6	9.1	9.4	9.2	2.1	2.0	2.1	1.8	
Average	9.2	9.4	9.4	7.6	8.0	7.8	8.2	8.6	8.5	1.6	1.3	1.4	1.1	

¹ First-tier investment properties are defined as new or newer quality construction in prime to good locations. Source: RERC Investment Survey.

PwC Real Estate Investor Survey (Korpacz)

Table 28 NATIONAL APARTMEN	T MARKET				
Second Quarter 2013					
	CURRENT	LAST QUARTER	1 YEAR AGO	3 YEARS AGO	5 YEARS AGO
DISCOUNT RATE (IRR) ^a	CCRREAT	III QUINTER	THERMOO	311111111111111111111111111111111111111	3 12112 1100
Range	5.00% - 14.00%	5.00% - 14.00%	5.25% - 14.00%	6.25% - 14.00%	6.00% - 10.50%
Average	8.04%	8.06%	8.30%	9.89%	8.16%
Change (Basis Points)		- 2	- 26	- 185	- 12
OVERALL CAP RATE (OAR) ^a					
Range	3.50% - 10.00%	3.50% - 10.00%	3.75% - 10.00%	5.00% - 11.00%	3.50% - 8.00%
Average	5.70%	5.73%	5.76%	7.68%	5.75%
Change (Basis Points)		-3	- 6	- 198	-5
RESIDUAL CAP RATE					
Range	4.25% - 9.75%	4.25% - 9.75%	4.50% - 9.75%	5.50% - 11.00%	4.50% - 8.50%
Average	6.18%	6.22%	6.15%	7.84%	6.69%
Change (Basis Points)		- 4	+ 3	- 166	- 51
MARKET RENT CHANGE ^b					
Range	(2.00%) - 7.00%	(2.00%) - 6.00%	(2.00%) - 8.00%	(10.00%) - 3.00%	0.00% - 8.00%
Average	2.60%	2.57%	2.80%	(0.49%)	3.17%
Change (Basis Points)		+ 3	- 20	+ 309	- 57
EXPENSE CHANGE ^b					
Range	1.00% - 3.50%	1.00% - 3.50%	1.00% - 4.00%	0.00% - 4.00%	2.00% - 3.75%
Average	2.67%	2.71%	2.65%	2.38%	2.92%
Change (Basis Points)		- 4	+ 2	+ 29	- 25
MARKETING TIME ^e					
Range	0 – 18	0 – 18	0 – 18	1 – 18	1 - 12
Average	5.1	5.1	5.3	7.1	6.0
Change $(\nabla, \triangle, =)$		=	▼	▼	▼

CAP RATES

Market StudiesRealty Rates

	DEC	STAURANTS	ALL TYPE	c					
ltem	Input	TAURANIS	- ALL TYPE	5		- 0	OAR		
rcem Minimum	Input		100		The state of the s	- 1	UAR		
Automobile Cartino					0.0000014				
Spread Over 10-Year Treasury	1000	DCR Techni	10 10 10 10 10 10 10 10 10 10 10 10 10 1	200	0.055574	0.75	4.79		
Debt Coverage Ratio	1.15		estment Tec	1335	THE RESIDENCE OF THE PARTY OF T				
Interest Rate	3.75%	Mortgage		75%	0.055574	0.041680			
Amortization	30	Equity		25%	0.108132	0.027033			
Mortgage Constant	0.055574	OAR					6.87		
Loan-to-Value Ratio	75%	Surveyed Ra	tes				5.63		
Equity Dividend Rate	10.81%								
Mazimum									
Spread Over 10-Year Treasury	11.52%	DCR Techni	DCR Technique 2.40 0.153729 0.50						
Debt Coverage Ratio	2.40	Band of Inve	estment Tec	hnique	•				
Interest Rate	13.24%	Mortgage		50%	0.153729	0.076864			
Amortization	15	Equity		50%	0.206560	0.103280			
Mortgage Constant	0.153729	OAR					18.01		
Loan-to-Value Ratio	50%	Surveyed Ra	tes				17.11		
Equity Dividend Rate	20.66%								
Average	**	Ø.				33			
Spread Over 10-Year Treasury	4.68%	DCR Techni	ique	1.71	0.088775	0.62	9.45		
Debt Coverage Ratio	1.71	Band of Inve	estment Tec	hnique					
Interest Rate	6.40%	Mortgage		62%	0.088775	0.055337			
Amortization	20	Equity		38%	0.162267	0.061121			
Mortgage Constant	0.088775	OAR					11.65		
Loan-to-Value Ratio	62.3%	Surveyed Ra	tes				12.80		
Equity Dividend Rate	16.2%								

^{*3}rd Quarter 2012 Data

Income Capitalization Approach

General procedure to valuing property via the direct capitalization approach

- Step 1: Determine market rents
- Step 2: Determine and apply market vacancy and credit loss
- Step 3: Determine any additional ancillary income
- Step 4: Project stabilized operating expenses
- Step 5: Project market capitalization rate
- Step 6: Capitalize Net Operating Income

Direct Capitalization

- PGI (Potential Gross Income)
- Vacancy
- EGI (Effective Gross Income)
- Expenses
- NOI (Net Operating Income)
- Divided by
- Capitalization Rate
- =VALUE

Direct Capitalization PRO FORMA

Net Operating Income		\$401,280
Effective Tax Rate	2.07%	
Capitalization Rate	7.75%	
Overall Capitalization Rate (Loaded)		9.82%
Capitalized Value (Including Personal Property)		\$4,086,354
Less: Personal Property	\$750 per Unit	\$51,000
Capitalized Value (Real Property Only)		\$4,035,354
Capitalized Value Per Unit (Real Property Only)		\$59,343
Indicated Value Via Income Approach as of Jan. 2, 20	013	\$4,040,000
Indicated Value per Unit		\$59,300

MULTI-FAMILY PRO-FORMA

Advanced Techniques

Hypothetical Property Analysis

- Non-existing property-Used for Demonstration Purposes
- Minnesota Apartment-Built in 1986
- 50 Units
- Average amenity package
- 30 Detached Garage Stalls
- 10 Storage Lockers

Potential Gross Apartment Income

- Projecting Potential Gross Apartment Income
 - Historical and current subject rent
 - Has rent been increasing/decreasing
 - Is occupancy too high? Potential for rent increase?
 - Survey rent comparables
 - Rent adjustment analysis
 - Location, unit size, in unit amenities (washer/dryer), complex amenities, parking, parking fee, age/condition, utilities included in rent, etc.
 - Market studies
 - GVA Marquette Advisors-Quarterly Apartment Trends
 - Supply/Demand
 - Current demand
 - Proposed projects?

Potential Gross Apartment Income

Subject Projection

POTENTIAL GROSS APARTMENT INCOME										
Unit Type	# of Units		Projected Monthly Rent		# of Months		Projected Annual Rent			
• • • • • • • • • • • • • • • • • • • •							-			
1-BR/1-BA Unit (700 Square Feet)	30	Х	\$750	Х	12	=	\$270,00			
2-BR/2-BA Unit (850 Square Feet)	20	Х	\$900	X	12	=	\$216,00			
Projected Gross Apartment Income	<u> </u>	Х	\$810	Х	12	=	\$486,00			

Parking Potential Gross Parking Income

Projecting Potential Gross Parking Income

- Survey comparable properties
- Typical parking rent
 - Included in rent or additional fee?
 - Detached/Attached/Tuck Under/Underground/Surface?
 - Downtown/Uptown/Dinkytown Mpls/St. Louis Park-\$100-\$150 per month
 - Twin Cities suburban area-\$45 to \$100 per month
 - Outside the Twin Cities metropolitan area-\$25 to \$50 per month

POTENTIA	POTENTIAL GROSS PARKING/GARAGE INCOME										
	# of		Rent Per		# of						
	Stalls		Month		Months						
Potential Gross Garage Income	30	x	\$50	х	12	=	\$18,000				

Apartment Vacancy/Credit Loss Analysis

- Subject historical vacancy and credit loss
- Survey comparables in the market
- Market studies
 - GVA Marquette Advisors
- Is vacancy a bad thing?
- Typical credit loss?

Parking Vacancy/Credit Loss Analysis

- Subject's historical vacancy/credit loss
- Parking vacancy comparables
- Interview property managers
- Parking ratio analysis
- Type of property/location
 - Senior housing/Affordable Housing versus Market Rate
 - Light Rail-Bus Lines

Effective Gross Ancillary Income

Miscellaneous Income

- Laundry, month to month fees, application fees, early termination fees, vending, security deposit forfeits, recovered collection loss, pet revenue, guest unit, late fees, move out charges, NSF (non-sufficient funds) charges, phone/internet/cable commissions.
- RUBS (ratio utility billing system) Income
 - Utilities (typically water/sewer/trash) are not individually metered and tenant is charged back their pro-rata share of utilities.
- Storage Locker Income
 - Included or additional charge
 - \$5 to \$25 per month

Rent Concessions/Loss to Lease

- Look at comparables
- Market studies
- Interview real estate professionals/property managers
- Revenue management systems (Yieldstar)

Effective Gross Income

 Effective Gross Income (EGI): the anticipated income from all operations of the real property adjusted for vacancy and collection losses.

Effective Gross Income

Subject Projection

INCOME PROJECTIONS:	,, ,		D		,, ,		D :
11.2 ±	# of		Projected		# of		Projected
Unit Type	Units		Monthly Rent		Months		Annual Rent
1-BR/1-BA Unit (700 Square Feet)	30	Χ	\$750	Χ	12	=	\$270,00
2-BR/2-BA Unit (850 Square Feet)	20	Χ	\$900	Χ	12	=	\$216,00
Projected Gross Apartment Income	50	X	\$810	X	12	=	\$486,00
Less: Vacancy and Credit Loss Allowance @	5.00%						(\$24,30
Effective Gross Apartment Income							\$461,70
	# of		Rent Per		# of		
	Stalls		Month		Months		
Potential Gross Garage Income	30	X	\$50	X	12	=	\$18,00
Less: Vacancy and Credit Loss Allowance @	5.00%						(\$90
Effective Gross Garage Income							\$17,10
Effective Gross Miscellaneous Income (50 U	Units x \$1	150 Pe	er Unit)				\$7,50
Effective Gross RUBS Income							•
Effective Gross Storage Locker Income (10 Units x \$10 Per Month x 12 Months x 90% Occupancy)							
Rent Concessions/Loss to Lease:							

Operating Expense Projections

- Standardized Expense Categories
 - Real Estate Tax
 - Insurance
 - Utilities
 - Gas
 - Electricity
 - Water/Sewer/Trash
 - Repairs and Maintenance
 - Management (% of Effective Gross Income)
 - Advertising
 - Administration
 - Caretaker/Payroll
 - Reserves for Replacement

Operating Expense Projections

- Subject's historical operating expenses
 - Trends in expenses-% annual increases
- Expense comparables
 - Trends in comparables
 - Are comparable expense categories grouped similar to the subject

Operating Expense Projections

Subject Projection

OPERATING EXPENSE PROJECTION								
EXPENSE PROJECTIONS:	% of EGI	Per Unit	Annually					
Real Estate Tax	12.82%	\$1,250	\$62,500					
Insurance	2.05%	\$200	\$10,000					
Utilities	8.21%	\$800	\$40,000					
Repairs and Maintenance	10.26%	\$1,000	\$50,000					
Management (3.50% of EGI)	4.00%	\$390	\$19,500					
Advertising	1.03%	\$100	\$5,000					
Administration	1.54%	\$150	\$7,500					
Caretaker/Payroll	8.21%	\$800	\$40,000					
Reserves for Replacement	2.56%	\$250	\$12,500					
Total Operating Expenses Including Reserves	50.68%	\$4,940	\$247,000					

NET OPERATING INCOME

Net Operating Income (NOI): the actual or anticipated income remaining after all operating expenses are deducted from effective gross income, but before mortgage debt service and book depreciation are deducted. May be calculated before or after deducting replacement reserves.

NET OPERATING INCOME

Subject Projection

NET OPERATING INCOME PROJECTION

Total Effective Gross Income--All Sources

Less: Total Operating Expenses Inc. Reserves

NET OPERATING INCOME

Per Unit:

\$487,380

(\$247,000)

\$240,380

\$4,808

- Market Extraction Method-Use of Comparable Sales
 - Trailing capitalization rate
 - How is trailing calculated?
 - Pro-forma capitalization rate
 - Value added deal
- Band of Investment Method
- Surveys
 - Korpacz
 - RERC
- Broker Discussions
 - CBRE
 - NAI Everest
 - Moran and Company
- Risk?

CAPITALIZATION RATE EXAMPLE										
Sale Price \$3,210,000										
	Trailing 12 Month	Trailing 9 Month Annualized	Trailing 6 Month Annualized	T1 Inc. Annualized/ T12 Expenses	Year 1 Pro-Forma					
Net Operating Income	\$210,576	\$219,885	\$225,342	\$233,688	\$240,750					
	6.56%	6.85%	7.02%	7.28%	7.50%					

- Value added deals
 - 1980's vintage apartments
 - Upgrades to appliances, countertops, cabinets, bathrooms, flooring, etc.
 - Results in aggressive capitalization rate due to upside potential

Value Added Property Example-Hypothetical

PROPERTY	<u>#1</u>	<u>#2</u>	<u>#3</u>	<u>#4</u>	<u>#5</u>
Cost to Upgrade Per Unit	\$750	\$1,500	\$2,500	\$3,500	\$5,000
Monthly Rent Premium	\$25	\$50	\$75	\$100	\$150
Multiplied by 12 Months:	<u>12</u>	<u>12</u>	<u>12</u>	<u>12</u>	<u>12</u>
Annual Rent Premium	\$300	\$600	\$900	\$1,200	\$1,800
Mulitiplied by Proj. Occupancy	95%	95%	95%	95%	95%
Multiplied by Proj. Expense Ratio (45%)	<u>55%</u>	<u>55%</u>	<u>55%</u>	<u>55%</u>	<u>55%</u>
Annual Net Operating Income Premium	\$157	\$314	\$470	\$627	\$941
Divided by Projected Capitalization Rate	<u>6.50%</u>	<u>6.50%</u>	6.50%	<u>6.50%</u>	<u>6.50%</u>
Upgraded Value Per Unit	\$2,412	\$4,823	\$7,235	\$9,646	\$14,469
Less: Cost to Upgrade	<u>\$750</u>	\$1,500	\$2,500	\$3,500	\$5,00 <u>0</u>
Additonal Net Value Created-Per Unit	\$1,662	\$3,323	\$4,735	\$6,146	\$9,469

Direct Capitalization Value

Subject Projection

DIRECT CAPITALIZATION					
\$240,380					
7.50%					
\$3,205,067					
\$3,210,000					
\$64,200					

Case Study

Case Study

MULTI-FAN	/IILY	PRO	FORMA	CAS	SE STUD	Υ	
INCOME PROJECTIONS:							
Unit Type	# of Units		Projected Monthly Rent		# of Months		Projected Annual Rent
1-BR/1-BA Unit (600 Square Feet)		x		x	12	=	
2-BR/2-BA Unit (825 Square Feet)		x		х	12	=	
Projected Gross Apartment Income		x		x	12	=	
Less: Vacancy and Credit Loss Allowance @							
Effective Gross Apartment Income							
Effective Gross Miscellaneous Income Rent Concessions:							
TOTAL EFFECTIVE GROSS INCOME AL	L SOURC	ES					
TOTAL OPERATIING EXPENSES							
NET OPERATING INCOME							
	DIRE	СТ (CAPITALIZATIO	ON			
Net Operating Income							
Capitalization Rate							
Effective Tax Rate	_		_				
Loaded Cap Rate (Total)	-		_				
FEE SIMPLE MARKET VALUE INDICATION							
ROUNDED TO:							
Per Unit							

Mass Appraisal

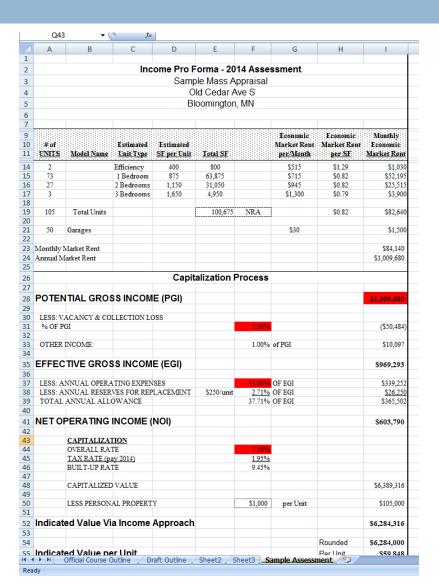
Mass Appraisal

- Separate by Class
- Isolate the variables.
 - PGI
 - Vacancy
 - Operating Expenses
 - Cap Rate
- Extract Trends
 - Or
- Create a Model

Mass Appraisal - Trends



CLASS (
20	013										
BASE PRO FORMA		RENT	CHANGE	VACANO	CY CHANGE	CAP RAT	E CHANGE	TAX RAT	TE CHANGE	Total P	RO FORMA
Rent	1	Rent	1.03	Rent	1	Rent	1	Rent	1	Rent	1.0
Vac	0.05	Vac	0.05	Vac	0.03	Vac	0.05	Vac	0.05	Vac	0.0
NOI	0.95	NOI	0.9785	NOI	0.97	NOI	0.95	NOI	0.95	NOI	0.999
Сар	8.50%	Сар	8.50%	Сар	8.50%	Сар	8.00%	Сар	8.50%	Сар	0.0
Tax	1.85%	Tax	1.85%	Tax	1.85%	Tax	1.85%	Tax	1.95%	Tax	0.019
Loaded	10.35%	Loaded	10.35%	Loaded	10.35%	Loaded	9.85%	Loaded	10.45%	Loaded	0.099
Value	9.178744	Value	9.4541063	Value	9.3719807	Value	9.64467	Value	9.0909091	Value	10.04120
		Change	3.00%	Change	2.11%	Change	5.08%	Change	-0.96%		9.40%



	Α	В	С	D	Е	F	G	Н	1				
1													
2		Income Pro Forma - 2014 Assessment											
3				Samp	le Mass A	ppraisal							
4		Old Cedar Ave S											
5		Bloomington, MN											
6													
7													
9							Economic	Economic	Monthly				
10	#of		Estimated	Estimated			Market Rent	Market Rent					
11	UNITS	Model Name	Unit Type	SF per Unit	Total SF		per/Month	per SF	Market Rent				
14	2		Efficiency	400	800		\$515	\$1.29	\$1,030				
15	73		1 Bedroom	875	63,875		\$715	\$0.82	\$52,195				
16	27		2 Bedrooms	1,150	31,050		\$945	\$0.82	\$25,515				
17	3		3 Bedrooms	1,650	4,950		\$1,300	\$0.79	\$3,900				
18													
19	105	Total Units			100,675	NRA		\$0.82	\$82,640				
20													
21	50	Garages					\$30		\$1,500				
22													
23	Monthly	Market Rent							\$84,140				
24	Annual N	Iarket Rent							\$1,009,680				
25													

Floor Plans	Property Details	★ Rat	tings and Reviews	Moving Center		
 Floor Plan Option 	us (4)					
FLOOR PLAN	BED	BATH	RENT	SQ FT	DEPOSIT	AVAILABILIT
Studio	studio	1	\$515	400		CHECK AVAILABILITY
1 Bedroom	1	1	\$600 - \$715	875	\$300	CHECK AVAILABILITY
2 Bedroom	2	1	\$945 - \$999	1150	\$350	CHECK AVAILABILITY

Section Sect	26				Capita	alization F	rocess			
1.00% 1.00	27									
29	28	POTEN	ITIAL GRO	SS INCOM	IE (PGI)					\$1,009,680
31	29				` '					
32 OTHER INCOME: 1.00% of PGI \$10,097 34 SEFFECTIVE GROSS INCOME (EGI) \$969,293 36 LESS: ANNUAL OPERATING EXPENSES 35.00% OF EGI \$339,25 38 LESS: ANNUAL RESERVES FOR REPLACEMENT \$250/unit 2.71% OF EGI \$26,25 39 TOTAL ANNUAL ALLOWANCE 37.71% OF EGI \$365,50 40 NET OPERATING INCOME (NOI) \$603,790 41 NET OPERATING INCOME (NOI) \$603,790 42 CAPITALIZATION OVERALL RATE 7.50% DUILT-UP RATE 9.45% BUILT-UP RATE 9.45% 45 CAPITALIZED VALUE \$6,389,316 46 BUILT-UP RATE 9.45% 47 LESS PERSONAL PROPERTY \$1,000 per Unit \$105,000 50 LESS PERSONAL PROPERTY \$1,000 per Unit \$105,000 51 Indicated Value Via Income Approach \$6,284,316	30	LESS: V.	ACANCY & CO	OLLECTION L	OSS					
35 EFFECTIVE GROSS INCOME (EGI) 36 Seffective Gross Income (EGI) 37 Less: Annual operating expenses 38 Less: Annual reserves for replacement \$250/unit \$2.71% of Egi \$339,25. 39 Total annual allowance 37.71% of Egi \$365,50 40 NET OPERATING INCOME (NOI) 41 NET OPERATING INCOME (NOI) 42 CAPITALIZATION 44 OVERALL RATE 7.50% 45 TAX RATE (pay 2014) 46 BUILT-UP RATE 9.45% 47 BUILT-UP RATE 9.45% 48 CAPITALIZED VALUE \$6,389,316 49 Less personal property \$1,000 per Unit \$105,000 50 Less personal property \$1,000 per Unit \$105,000 51 Indicated Value Via Income Approach \$6,284,316	31	% OF P	GI				5.00%			(\$50,484)
## Separation	32									
Separation	33	OTHER	INCOME:				1.00%	of PGI		\$10,097
35.00% OF EGI \$339,25	34									
35.00% OF EGI \$339,25	35	EFFEC	TIVE GRO	SS INCOM	IE (EGI)					\$969,293
38 LESS: ANNUAL RESERVES FOR REPLACEMENT \$250/unit 2.71% OF EGI \$26.25 39 TOTAL ANNUAL ALLOWANCE 37.71% OF EGI \$365,50 40 NET OPERATING INCOME (NOI) \$603,790 41 NET OPERATING INCOME (NOI) \$603,790 42 A3 CAPITALIZATION 7.50% 7	36				` '					
39 TOTAL ANNUAL ALLOWANCE 37.71% OF EGI \$365,50 40 NET OPERATING INCOME (NOI) \$603,790 41 NET OPERATING INCOME (NOI) \$603,790 42	37	LESS: A	NNUAL OPER	ATING EXPE	NSES		35.00%	OF EGI		\$339,252
40	38	LESS: A	NNUAL RESE	RVES FOR REI	PLACEMENT	\$250/unit	2.71%	OF EGI		\$26,250
42 43 CAPITALIZATION 44 OVERALL RATE 7.50% 45 TAX RATE (pay 2014) 1.95% 46 BUILT-UP RATE 9.45% 47 48 CAPITALIZED VALUE \$6,389,316 49 50 LESS PERSONAL PROPERTY \$1,000 per Unit \$105,000 51 52 Indicated Value Via Income Approach \$6,284,316 53 Rounded \$6,284,000	39	TOTAL	ANNUAL ALI	LOWANCE			37.71%	OF EGI		\$365,502
42 43 CAPITALIZATION 44 OVERALL RATE 7.5096	40									
42 43 CAPITALIZATION 44 OVERALL RATE 7.50% 45 TAX RATE (pay 2014) 1.95% 46 BUILT-UP RATE 9.45% 47 48 CAPITALIZED VALUE \$6,389,316 49 50 LESS PERSONAL PROPERTY \$1,000 per Unit \$105,000 51 52 Indicated Value Via Income Approach \$6,284,316 \$6,284,300 \$6,284,000 \$6	41									\$603,790
44 OVERALL RATE 45 TAX RATE (pay 2014) 46 BUILT-UP RATE 47 9.45% 48 CAPITALIZED VALUE 50 LESS PERSONAL PROPERTY 51 Indicated Value Via Income Approach 53 Rounded \$6,284,316	42									
45	43		CAPITALIZA	TION						
46 BUILT-UP RATE 47 48 CAPITALIZED VALUE 50 LESS PERSONAL PROPERTY 51 S1,000 per Unit \$105,000 52 Indicated Value Via Income Approach 53 54 Rounded \$6,284,000	44		OVERALL RA	ATE			7.50%			
47	45		TAX RATE (1	pay 2014)			1.95%			
48 CAPITALIZED VALUE \$6,389,316 49 50 LESS PERSONAL PROPERTY \$1,000 per Unit \$105,000 51 52 Indicated Value Via Income Approach \$6,284,316 53 64 Rounded \$6,284,000	46		BUILT-UP RA	ATE			9.45%			
49 50 LESS PERSONAL PROPERTY \$1,000 per Unit \$105,000 51 52 Indicated Value Via Income Approach \$6,284,316 53 80 80 80 80 80 80 80 8	47									
50 LESS PERSONAL PROPERTY \$1,000 per Unit \$105,000 51	48		CAPITALIZE	D VALUE						\$6,389,316
51 52 Indicated Value Via Income Approach \$6,284,316 53 54 Rounded \$6,284,000										
52 Indicated Value Via Income Approach 53 54 Rounded \$6,284,316			LESS PERSON	NAL PROPERT	Y		\$1,000	per Unit		\$105,000
53 54 Rounded \$6,284,000	51									
54 Rounded \$6,284,000	52	Indicat	ed Value V	'ia Income	Approach					\$6,284,316
	53									
Indicated Value per Unit	54								Rounded	\$6,284,000
	55	Indicat	ed Value n	er Unit					Per Unit	\$59.848
I ← → ▶I Official Course Outline ✓ Draft Outline ✓ Sheet2 ✓ Sheet3 _Sample Assessment €3	Rea	idy								

- Test Your Model!
 - Listings
 - Sales
 - Appeals

Question & Answer

