

Past is Prologue? Valuation of Banks in the Public and M&A Markets

2018 Bluegrass Community Bankers Association Annual Convention – Bowling Green, KY

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Valuation and Sentiment





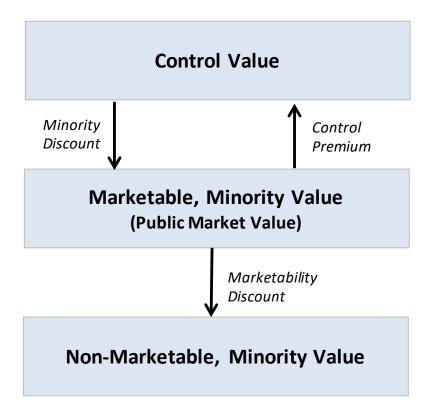
Markets make opinions – Richard Russell (Dow Theory Letters)



General Valuation Thoughts



Valuation Perspective



Control premiums (or minority interest discounts from the control price) tend to be heavily influenced by buyer synergies or buyer financing structures (e.g., stock swap using a high multiple stock, or the amount of debt financing available)

Marketability discounts tend to be inversely related to (a) # of shareholders; (b) IPO potential; (c) M&A potential; (d) absence of shareholder agreements; (e) dividends



Wall Street



Growth!

Accelerating Growth!!





Hubris = Bad Stocks

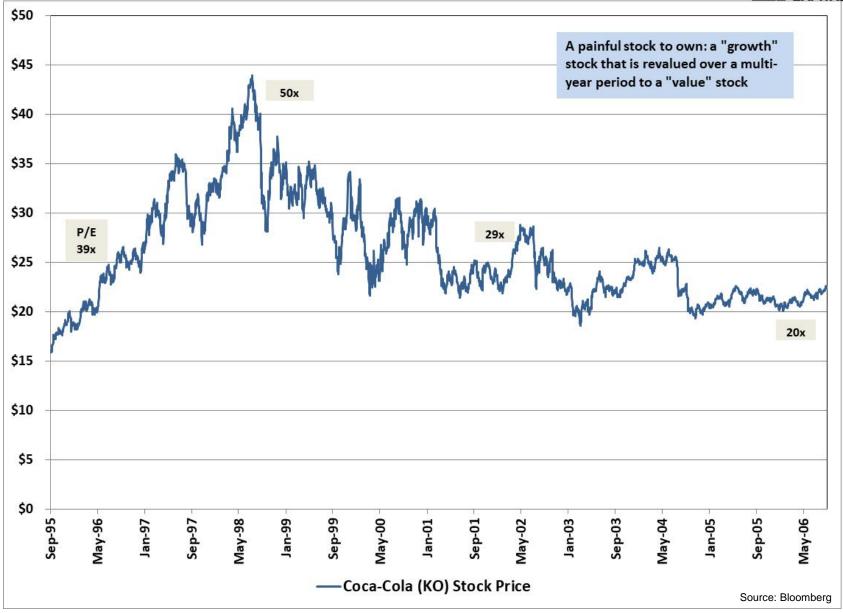
Robert Goizueta (KO CEO) 1995 Annual Report

"Our virtual infinite opportunity for growth"

On using the infinity sign as an "unregistered trademark of our growth potential"

On when KO would not repurchase shares "whenever securities laws say we can't. Otherwise we've yet to encounter a time when we felt our stock wasn't a long-term investment bargain for us."







High Level Math = Big Picture

 $P/TBV = ROE (ROTE) \times P/E$

 $ROE = ROA \times Leverage \dots or$

ROE = (Income / Assets) x (Assets / Equity)

P/E = Risk Profile and **Growth Expectations**

Bank investors toggle between what is top of mind



Why Risk and Growth Matters

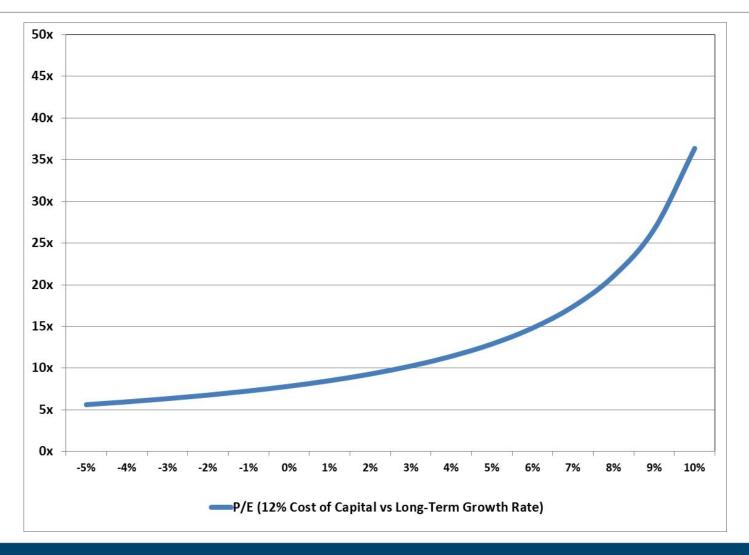
+ Yield to Maturity on 10 Yr UST		2.90%
+ Equity Premium	5.50%	
x Company Beta	1.20	
=Beta Adj Equity Premium		6.60%
+ Small-Mid Cap Equity Premiun	2.15%	
+ Company Specific Risks	1.00%	
= Discount Rate (Equity Cost of C	12.65%	
- Long-Term Growth Rate (G)		-7.00%
= Capitalization Rate		5.65%
= Multiple (1 / Cap Rate)		17.7x
Ongoing Earning Power Estimat	e	\$100,000
x Price/Earnings Ratio		17.7x
= Capitalized Earnings Value	:	\$1,770,000

Multiples are negatively correlated with risk ... higher risk = P/E

Growth matters a lot to value, but so does risk



P/E Increases with Growth





Valuation Perspective

Value as an independent company

- Discounted Cash Flow (DCF) of projected future cash flow and terminal value discounted at a risk appropriate rate (12-15%)
- Public market comps
- Transactions in the subject's stock and (sometimes) net asset value

Acquisition value

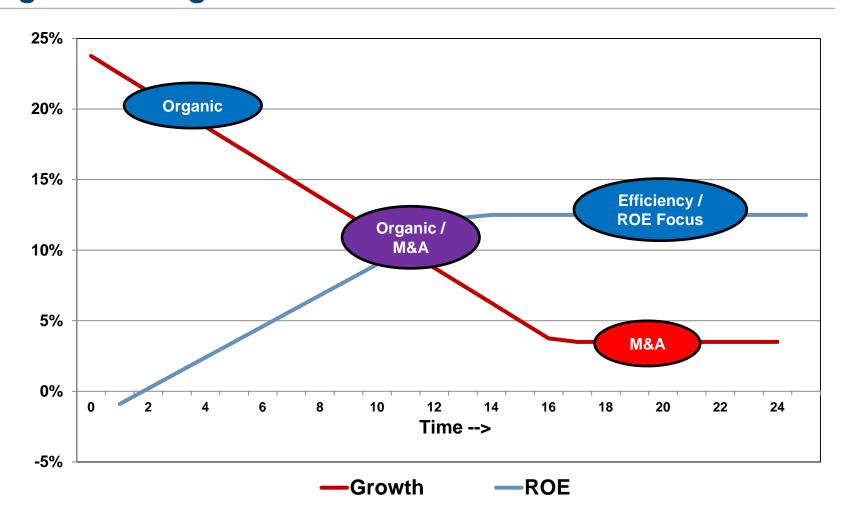
- DCF with expense savings (and deal costs)
- M&A comp transactions
- Contribution analysis

Buyer dynamics

- Internal rate of return projected vs. hurdle rate
- EPS accretion vs. TBVPS dilution and earn-back period
- Strength of the buyer's currency (how richly valued?)
- Excess capital and/or access to the capital markets to fund cash portion



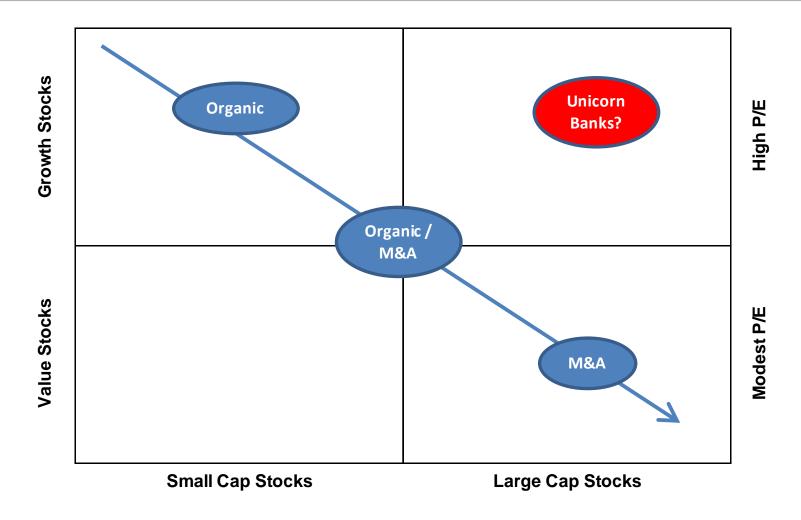
Typical Successful Bank Life-Cycle: Organic → Organic/M&A → Max ROE or Sell





Ownership Changes Too

→ Small Cap Growth → Mid Cap Growth → Large Cap Value





Industry Fundamentals



Industry Themes

Secular

Consolidation

Digital

Capital build

NIM decline

CRE concentration

ZIRP new reality each recession?

Rise of capital markets and private capital vs bank balance sheets

Cyclical

1H18 industry earnings +25%

Credit costs are very low

Liquidity tightening (loan growth > deposit growth)

NIM up with higher short-rates (with partial offset from flatter yield curve)

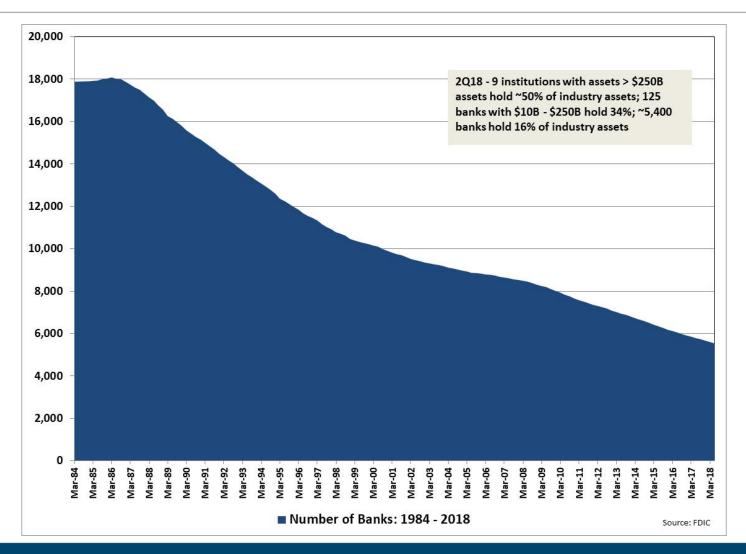
Rates moving higher!

Regulatory relief

ROE improving

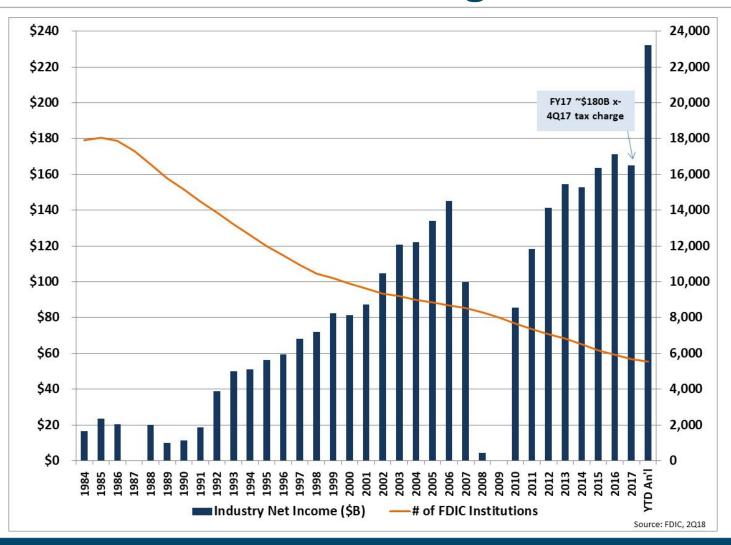


Consolidation



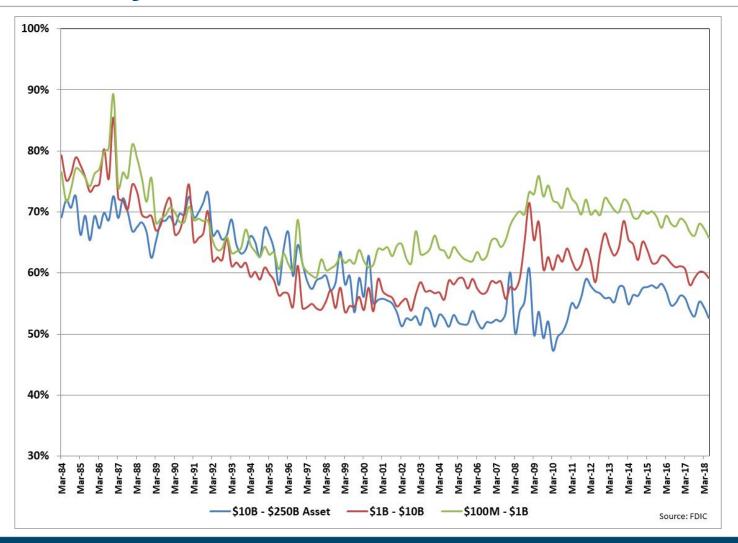


Consolidation and Earnings



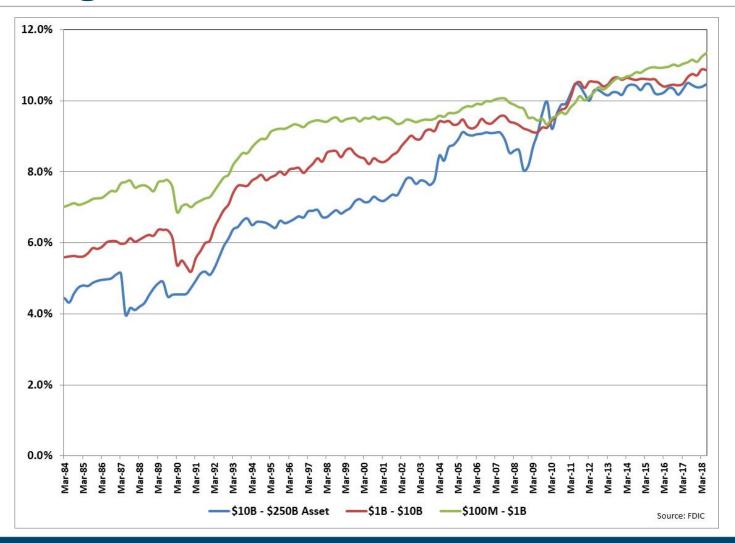


Efficiency (1Q84-2Q18)



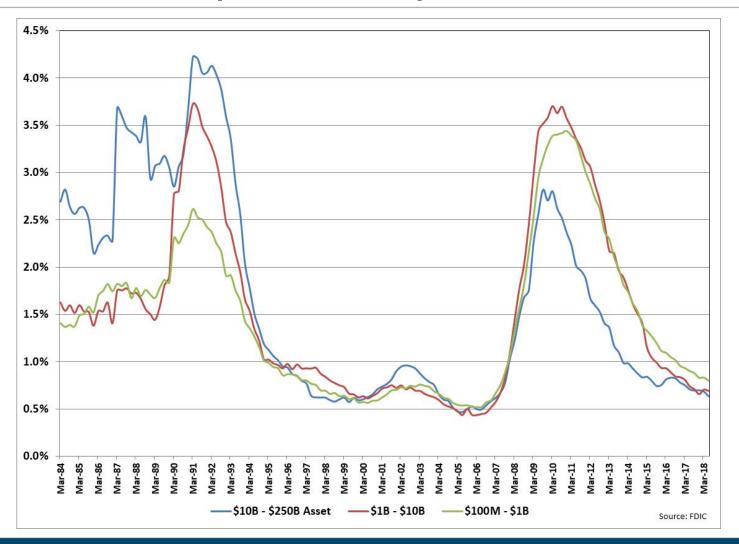


Leverage Ratio (1Q84-2Q18)





NPA / Assets (1Q84-1Q18)





Then vs Now

	Assets :	> \$10B	Assets \$3	B - \$10B	Assets \$30	0M - \$1B
	2006	1Q18	2006	1Q18	2006	1Q18
Pre-Tax ROA	1.83%	1.51%	1.73%	1.54%	1.81%	1.40%
ROA	1.21%	1.17%	1.12%	1.20%	1.26%	1.16%
ROE	14.0%	9.8%	12.4%	10.9%	13.7%	11.0%
ROTE (~)	20.5%	13.0%	16.1%	12.6%	14.8%	11.1%
Tangible Common / Tang Assets	5.9%	9.0%	7.0%	9.5%	8.5%	10.4%
Net Interest Margin	3.41%	3.28%	3.87%	3.54%	4.21%	3.77%
NIM less Net Charge-Offs	3.18%	3.07%	3.72%	3.48%	4.10%	3.73%
Fee Income / Revenue	36.4%	29.1%	24.6%	20.6%	17.4%	16.2%
Efficiency Ratio	60.9%	62.0%	61.2%	61.6%	59.0%	65.0%
Loans / Assets	62.6%	63.6%	67.6%	72.5%	71.1%	69.5%
NPLs+ORE / Loans+ORE	0.57%	0.69%	0.49%	0.60%	0.71%	0.97%
Net Charge-Offs / Avg Loans	0.23%	0.21%	0.15%	0.06%	0.11%	0.04%
Loan Loss Reserve / Loans	1.11%	0.96%	1.23%	0.97%	1.20%	1.28%

Source: FDIC, FFIEC (BHCPRs) and Mercer Capital



Public Market for Bank Stocks



Trump Trade

Banks were the top-performing sector in the immediate after-math of the national election

- New regulators!
- Dodd-Frank reform
- Lower corporate tax rates (banks had among highest rates)
- Higher economic growth = better loan growth
- Cover (or reason) for Fed to hike rates faster and further

Fed & Bank Stocks

Rate hikes are a plus for most traditional commercial bank NIMs

- Core bank spread widens
- Wholesale bank spread narrows

Performance of bank stocks and Fed actions more nuanced (early hikes positive, late hikes meh)

Bank stocks tend to bottom and peak with credit, not the Fed

Bank stocks are "early cyclicals" – tend to turn down when economy is hot and bottom/turn-up when economy bottoms



Investor 2018 Themes

Bull Case

Asset sensitive (lots of non-IB deposits & Libor loans)

Return of capital (dividend hikes and share repurchases)

Regulatory relief with Dodd-Frank rollback (or definition of what sized bank is subject to what)

Tax cuts propel economy = loan demand, income growth, extend credit cycle

HY and IG corporate bond spreads not signaling pending credit issues

Bear Case

Fed is tightening and withdrawing liquidity when central banks have created massive, global asset bubble

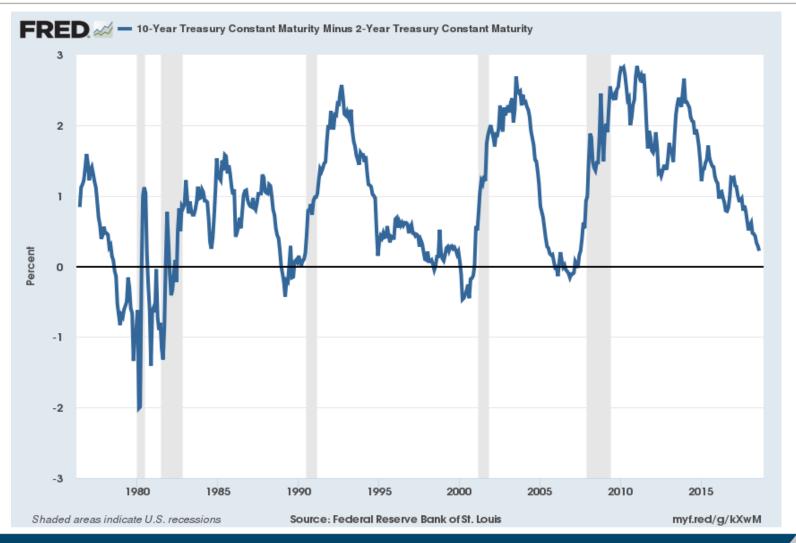
Traditional yardsticks (2/10 narrowing, froth in HY and levered loan markets re structure) point to latish credit cycle

Market is efficient—impact of tax reform was priced into stocks during 4Q17

Earnings overstated to the extent credit costs are exceptionally low

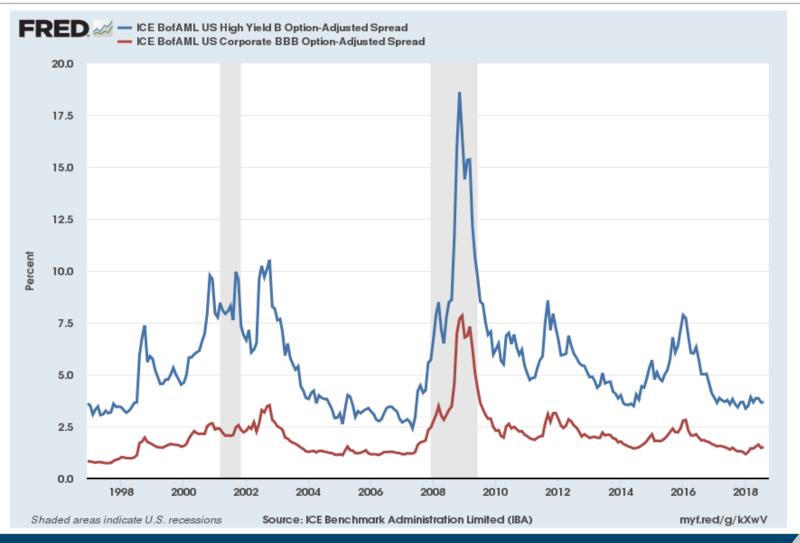


10/2 YR UST Spread





HY & IG Option Adjusted Spread





Total Return (price + dividends)

	S&P 500	Russell 2000	SNL Large Cap Bank Index	SNL Small Cap Bank Index	Large Cap Banks vs S&P 500	Small Cap Banks vs Russell 2000	Large Cap vs Small Cap Banks
Year-to-Date (8/21/18)	8.4%	12.7%	4.2%	11.0%	-4.2%	-1.7%	-6.8%
11/8/16 - 8/21/18	38.4%	46.4%	53.5%	48.5%	1 15.1%	2.1%	5.0%
National Electio	n						
1 Year to Election	4.2%	1.1%	-3.2%	5.5%	-7.4%	4.4%	-8.7%
3 Year to Election	28.7%	13.3%	23.0%	35.8%	I I -5.7% I	22.5%	-12.8%
5 Year to Election	86.7%	69.8%	108.4%	110.5%	21.7%	40.7%	-2.1%
10 Year to Election	91.5%	78.3%	-13.5%	5.6%	-105.0%	-72.7%	-19.1%

Much of the industry's outperformance post-election occurred 11/16 to 2/17

Small bank outperformance vs large caps reflects a) higher EPS growth; and b) M&A

YTD underperformance consistent with flattening curve ... late cycle (NIM or future credit?)

Source: S&P Global Market Intelligence



Bank Index Valuation

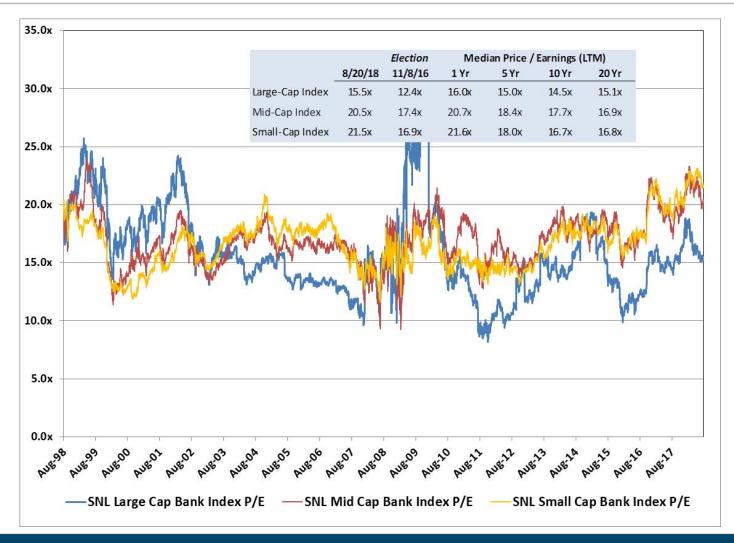
		Election	Median Price / Earnings (LTM)							
	8/20/18	11/8/16	1 Yr	5 Yr	10 Yr	20 Yr				
Large-Cap Index	15.5x	12.4x	16.0x	15.0x	14.5x	15.1x				
Mid-Cap Index	20.5x	17.4x	20.7x	18.4x	17.7x	16.9x				
Small-Cap Index	21.5x	16.9x	21.6x	18.0x	16.7x	16.8x				

		Election	Median Price / Tangible Book Value								
	8/20/18	11/8/16	1 Yr	5 Yr	10 Yr	20 Yr					
Large-Cap Index	201%	148%	198%	169%	167%	260%					
Mid-Cap Index	242%	195%	230%	207%	186%	235%					
Small-Cap Index	200%	166%	198%	169%	161%	201%					

Source: S&P Global Market Intelligence

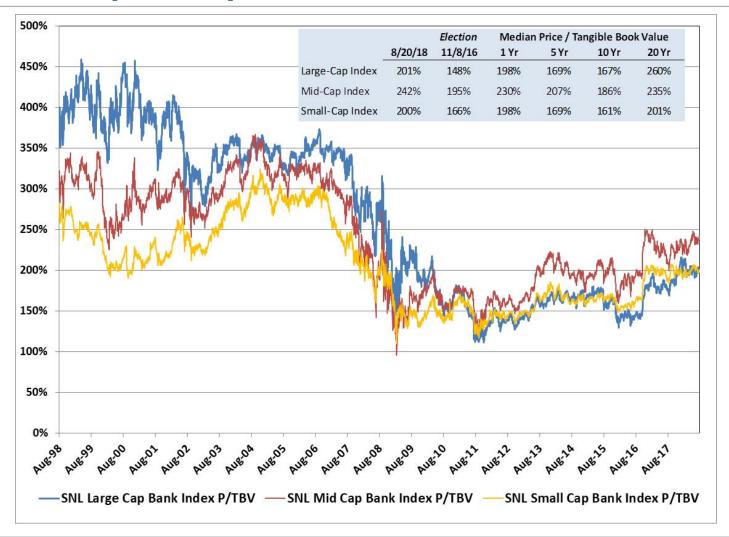


P/E (98-18; LTM EPS)





P/TBV (98-18)





EPS & Revenue Growth for Small and Mid-Cap Banks (i.e. the Buyers)

8/21/2018	P/E LTM	P/E FY18E	P/E FY19E	Price/ TBV	Div'd Yield	2Q18 ROA	2Q18 ROE	2Q18 ROTCE	Y/Y EPS	Y/Y Rev	Y/Y PTPP	Y/Y Loans
Money Center	15.8x	10.7x	9.5x	138%	1.9%	1.14%	12.8%	13.7%	43.2%	2.6%	13.4%	3.7%
Trust Banks	14.2x	12.4x	11.6x	281%	2.1%	1.28%	14.7%	25.6%	22.9%	7.4%	6.3%	-3.1%
Wealth Mng't Banks	23.2x	15.4x	14.8x	252%	2.3%	1.35%	11.1%	15.8%	21.3%	10.1%	5.9%	11.6%
Card Banks	14.3x	9.5x	9.0x	185%	1.8%	2.76%	22.5%	23.6%	43.6%	5.8%	5.6%	6.6%
Super Regionals	15.0x	13.2x	12.1x	219%	2.7%	1.42%	12.6%	17.6%	30.4%	4.7%	5.6%	1.0%
Regional Banks	18.6x	14.6x	13.3x	221%	2.0%	1.30%	10.2%	15.4%	29.8%	11.3%	13.5%	8.2%
Assets \$2B - \$10B	19.7x	15.3x	13.9x	211%	2.0%	1.23%	11.0%	13.6%	26.9%	11.3%	15.2%	11.3%
Assets \$500M - \$2B	17.7x	15.0x	13.1x	158%	1.8%	1.02%	10.7%	11.7%	25.0%	9.7%	11.9%	10.2%
Thrifts	20.0x	16.8x	14.4x	152%	2.1%	0.96%	8.3%	9.4%	22.9%	6.4%	9.5%	6.7%

Source: S&P Global Market Intelligence



KY and Area Banks

Total	Return					Market			Price /							NPAs/
1 Yr (%)	3 Yr (%)	Company	ST	Ticker	Price (\$)	Cap (\$M)	Avg Day Volume	LTM (x)	FY18E (x)	TBVPS (%)	Yield (%)	Assets (\$M)	ROA (%)	ROE (%)	Efic (%)	Assets (%)
39	94	Limestone Bncp	KY	LMST	15.25	112	7,267	NM	NA	132	0.0	1,041	0.78	9.7	74	0.83
21	51	HopFed Bncp Inc	KY	HFBC	16.80	112	9,459	22.9	20.7	128	1.7	913	0.62	6.5	83	0.91
30	87	Kentucky Bcshs	KY	KTYB	51.20	152	388	12.7	NA	177	2.4	1,047	1.19	12.5	69	0.25
14	74	Stock Yards Bncp	KY	SYBT	38.65	879	58,196	17.8	16.3	256	2.4	3,324	1.73	15.9	55	0.23
24	59	CommunityTrustBncp	KY	СТВІ	50.25	890	41,358	16.0	15.2	187	2.9	4,205	1.31	10.2	57	2.42
49	114	Republic Bncp KY	KY	RBCA.A	50.30	1,051	16,303	16.2	15.4	162	1.9	5,266	1.67	13.2	52	0.85
36	90	City Holding Co	wv	СНСО	82.37	1,273	58,523	18.5	16.9	299	2.2	4,374	1.85	15.4	51	1.11
37	107	Premier Finl Bncp	W۷	PFBI	20.15	269	18,855	15.6	NA	183	3.0	1,514	1.26	10.2	58	2.58
42	76	WesBanco Inc	wv	WSBC	50.59	2,760	131,437	17.5	16.4	274	2.3	10,947	1.28	9.1	54	0.39
19	100	German Amer Bncp	IN	GABC	37.52	862	43,605	19.3	17.8	283	1.6	3,345	1.44	12.6	56	0.27
27	58	Old National Bncp	IN	ONB	20.15	3,070	847,542	15.5	15.4	232	2.6	17,483	1.06	8.5	62	0.91
35	85	First Fin Bancorp	ОН	FFBC	31.90	3,123	441,063	15.8	14.6	287	2.5	13,920	1.17	9.1	53	0.46
20	76	Peoples Bncp Inc	ОН	PEBO	35.56	694	43,309	14.2	13.6	207	3.1	3,972	1.05	8.3	62	0.45
5	NA	CapStar Finl Hlgs	TN	CSTR	17.76	213	21,259	13.6	15.7	154	0.9	1,401	0.98	8.9	68	0.47
28	NA	FB Finl Corp	TN	FBK	43.95	1,349	103,554	16.7	15.3	281	0.5	4,923	1.77	13.8	64	0.56
9	63	SmartFinancial Inc	TN	SMBK	24.87	316	33,498	25.6	15.7	176	0.0	2,062	0.80	6.5	65	0.28
23	49	Simmons First Natl	AR	SFNC	31.30	2,889	386,306	15.4	13.3	240	1.9	16,166	1.37	9.9	55	0.73
27	58	Great Southern	МО	GSBC	60.35	853	26,904	17.1	14.8	178	1.9	4,569	1.23	11.3	56	0.71
27	76	Median				870	- -	16.2	15.4	197	2.1	4,089	1.25	10.0	58	0.64

Source: S&P Global Market Intelligence



M&A Trends



M&A Themes

Pricing driven by seller earnings and expense savings (but value quoted as a multiple of tangible book value!)

Expense savings always a key in pro forma earnings but who gets credit?

Emerging theme of need to buy to acquire deposits

Post-crisis M&A largely among small banks; may be changing post reform

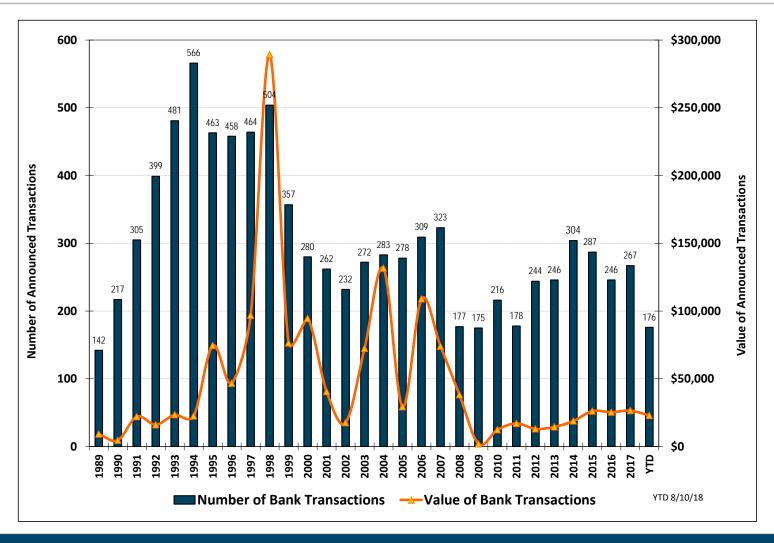
Emergence of more super community banks and small regional banks with publicly-traded stock to acquire

Era of positive reactions to deals over; most buyers see neutral-to-pressure on their shares upon announcement

Street prefers premium acquisitions to MOEs (though do not let the Street dissuade your board from an intelligent MOE)

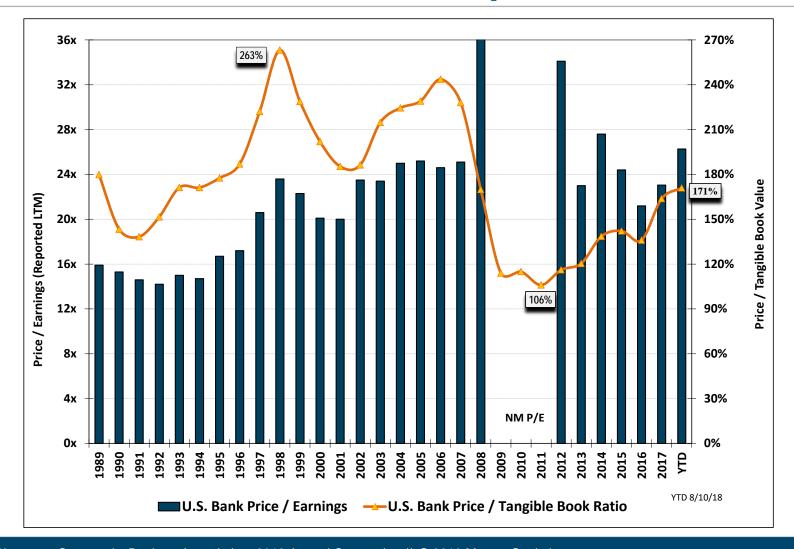


US Bank M&A Activity and Deal Value



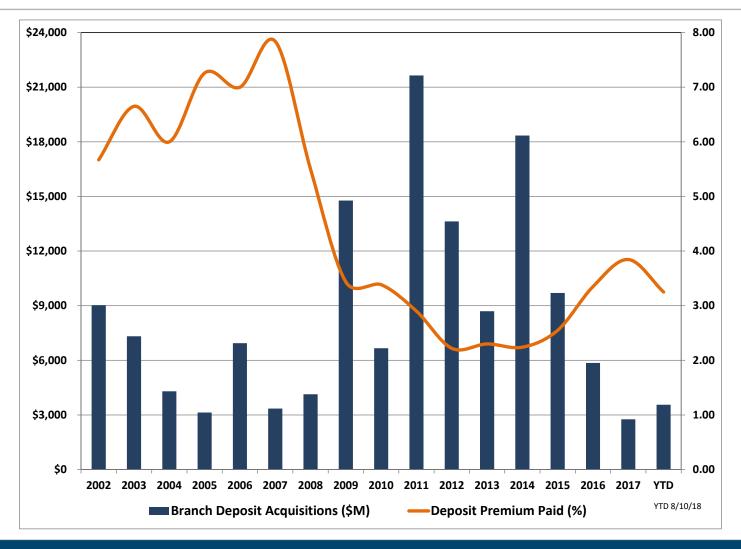


US Bank M&A Median Multiples





US Branch Transactions





Cash vs Stock Matters! Size too

	100% Stoc	ck or Mix w/S	tock > 50%	100% Casl	n or Majority (Cash Deals
	2018 Only	Post 11/16	Pre-Election	2018 Only	Post 11/16	Pre-Election
Commercial Bank Deals	71	192	147	25	67	106
Median Asset Size	\$480	\$444	\$397	\$207	\$183	\$127
Median ROA	0.83%	0.82%	0.75%	0.85%	0.85%	0.58%
Median ROE	7.4%	7.7%	7.3%	7.6%	6.6%	5.1%
Median Transaction Value	\$89	\$71	\$57	\$19	\$22	\$16
Median P/BV	176%	170%	141%	144%	139%	120%
Median P/TBV	191%	173%	147%	150%	143%	123%
Adj Price / Core Equity	201%	194%	156%	177%	162%	132%
Median P/E (LTM)	24.5x	23.0x	20.3x	24.9x	19.5x	23.8x

¹⁾ Post-election 11/9/16 - 8/22/18; pre-election 3/8/15 - 11/8/16

Source: S&P Global Market Intelligence

²⁾ Adj price / core equity assumes 8% tangible equity with excess capital valued \$-for-\$

³⁾ Transactions with disclosed pricing only



Typical Pricing Parameters

Pricing: 9-12x pro forma earnings with 100% after-tax expense saves

Expense Saves: 25-30% for out-of-market deals, 30-45% in-market

Revenue Synergies: Good luck!

TBVPS Dilution Earn-Back: 3-5 years via the "cross-over" method

EPS Accretion: Threshold varies, but ~5% *minimum* accretion

Internal Rate of Return: Comfortably above the buyer's cost of capital

Bank Capital: Varies but day one leverage ratio 8-9% (*investors in public acquirers are focused on consolidated capital, not bank-level*)

Parent Capital Structure: Significant flexibility for small BHCs (though most boards probably not comfortable with Fed allowed max)



Transaction Summary

Credible assumptions?

Initial dilution from deal charges and creating goodwill is certain

EPS accretion is less certain and occurs in the out years but it ongoing

Question for buyer: Is value of our franchise enhanced?

Question for seller: Value of consideration received today vs the value of waiting to sell?

Transaction Multiples	(\$000)	P/S	
Price to Seller	\$32,137	\$37.32	
Price / Tangible BVPS (with Options)	\$20,407	\$23.70	157%
Price / 2018E Earnings	\$2,147	\$2.53	14.8x
Price / 2019E w 50% Expense Saves	\$2,807	\$3.31	11.3x
Price / 2020E w 100% Expense Saves	\$3,472	\$4.09	9.1x
Buyer Price Per Share		\$55.85	
DBI Price / Post-Raise YE18 TBV	\$46,462	\$33.06	169%
DBI Price / FY19E	\$6,856	\$4.15	13.5x
DBI Price / FY20E	\$7,914	\$4.53	12.3x

Buyer Accretion / (Dilution) Summary	As Is	Pro-Forma	Δ
Tangible BVPS @ 3/31/18	\$40.30	\$36.21	-10%
TBVPS Cross-Over Recovery			~4 yrs
FY19E EPS	\$3.81	\$4.15	9%
FY20E EPS	\$4.08	\$4.53	11%
Bank Leverage Ratio @ 3/18	9.2%	8.1%	-110 bps
Bank Tier-One Ratio @ 3/18	12.5%	11.5%	-104 bps
Bank TRBC Ratio @ 3/18	13.0%	11.9%	-114 bps
Buyer Shareholders' Ownership	100%	86%	-1400 bps
Parent Debt / Equity @ 3/18	0.0%	28.1%	



Recent KY Deals

			Deal Value and Co				Deal Mu	ıltiples	
			Target	Deal	Est Cost	Price/	Price/	Price/	Core Dep
Announce			Assets	Value	Saves	BV	Tang BV	EPS	Prem
Date	Buyer	Seller	(\$M)	(\$M)	(%)	(%)	(%)	(x)	(%)
4/22/2014	Community Bank Shares of IN	First Financial Service Corp.	837	18	40	113	120	NM	0.5
6/11/2014	Forcht Bancorp Inc.	Grant County Bancorp Inc.	79	7	NA	79	79	NM	(3.2)
8/14/2014	Citizens National Corp.	Peoples Security Bancorp Inc.	48	6	35	132	132	NM	4.1
9/8/2014	BB&T Corp.	Bank of Kentucky Finl Corp.	1,858	379	NA	189	225	17.3	14.4
10/14/2014	First Southern Bancorp Inc.	First United Inc.	144	17	NA	110	114	12.3	2.8
11/21/2014	Hambac Inc.	Kentucky Home Bancshares Inc.	108	19	NA	115	115	19.6	3.4
1/21/2015	Kentucky Bancshares Inc.	Madison Financial Corp.	123	7	NA	101	101	15.4	0.1
6/4/2015	First Capital Inc.	Peoples Bncp Inc Bullitt Cnty	239	30	NA	103	103	17.1	0.5
6/17/2015	Pvt Invr- William P. Butler	American Founders Bank Inc.	293	14	NA	119	121	NM	1.2
9/16/2015	First Cecilian Bancorp Inc.	Farmers Bancshares Inc.	232	49	NA	122	122	16.3	5.2
9/30/2015	Citizens National Corp.	Alliance Banking Co.	56	4	NA	75	75	NM	(4.0)
6/21/2016	Monticello Bankshares Inc.	Banco Harlan Inc.	140	14	NA	91	91	41.1	(1.5)
7/26/2016	South Central Bcshs of KY Inc.	Kentucky National Bancorp Inc	132	19	NA	126	126	21.0	4.5
12/19/2016	MainSource Financial Group	FCB Bancorp Inc	523	57	40	185	186	21.5	NA
11/14/2017	First Breckenridge	Bancorp of Lexington Inc.	263	42	NA	150	150	20.1	11.8
2/15/2018	Monticello Bankshares Inc.	Bluegrass Bancorp Inc.	56	5	NA	80	80	NM	NM
4/19/2018	WesBanco Inc.	Farmers Capital Bank Corp.	1,686	378	35	195	195	26.9	13.9
5/22/2018	German American Bancorp Inc.	First Security Inc.	586	103	38	151	162	35.5	11.1
7/11/2018	City Holding Co.	Poage Bankshares Inc.	450	95	45	153	162	NM	12.6
7/11/2018	City Holding Co.	Farmers Deposit Bancorp Inc.	122	25	50	133	133	NM	6.9
4/25/2018	Pvt Invr- Gaylon Lawrence Jr.	Volunteer State Bcshs (TN)	622	128	NA	234	234	28.1	20.3

Source: S&P Global Market Intelligence



Stock Swap

Many questions to address

Liquidity—can I sell?

Ownership % vs contribution %

Profitability trends

Loan portfolio history, risks

Pro forma impact on EPS, TBVPS, DPS, capital, ROE

Historical valuation and proforma valuation (realistic?)

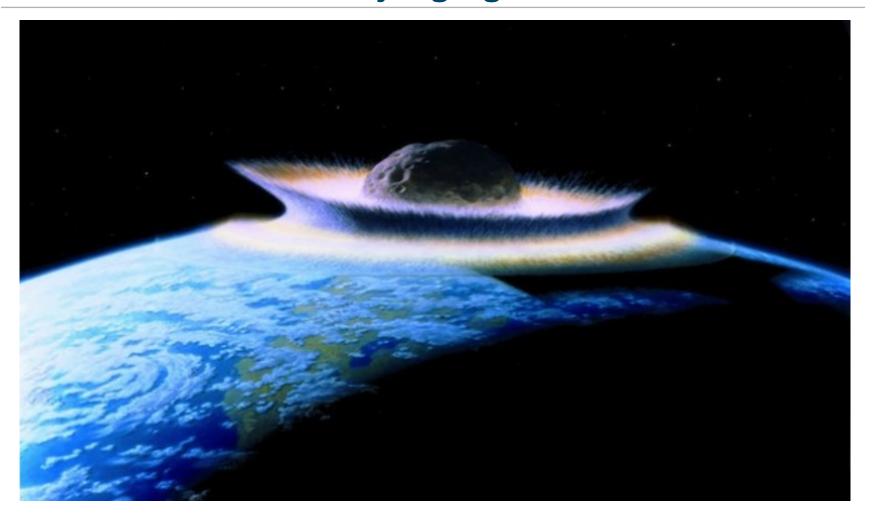
Has buyer created reasonable value for its shareholders and outlook to do so post-close?

Are sellers getting a better piece of paper than what they have?





Price paid matters for buyers but post-close execution and not misjudging credit matter a lot!





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