

Bob Judge, Government Loan Solutions, Editor



Bob Judge is a partner at Government Loan Solutions.

Government Loan Solutions is a provider of valuation services, prepayment analytics and operational support for the SBA marketplace.

Bob has 30 years of experience in the fixed income markets. He holds a B.A. in Economics from Vassar College and an M.B.A. in Finance from NYU Stern School of Business.

#### INSIDE THIS ISSUE:

##### Special points of interest:

- Prepays Back Below 8%
- **More SBI Indexes—New!!!**
- 7a Defaults Rise

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## PREPAYS FALL BACK BELOW 8%

In September, prepays fell back below 8% for the fourth time this year, decreasing by 2% from August.

As to the cause, we saw an increase in defaults that were more than offset by a decrease in voluntary prepayments.

Defaults, which rose by 37%, remained below 2% for the

13th month in a row. Additionally, the reading this month was the 22nd lowest since 1999.

As for voluntary prepayments, they fell back below 6% after one month above this benchmark. This is also the 4th time this year that we have seen voluntaries below 6%.

As for the detail, overall prepayments fell 2% to 7.79% from 8.14% in August.

In comparing prepayment speeds for the first nine months of 2014 to the same period in 2013, we see that this

*Article continued on page 8, graphs on page 3 & 4 and data on pages 30-32*

## SBI: INTRODUCING OUR NEW SBA COMPOSITE INDEX

This month, we are introducing our new SBA Composite indexes, which combine our primary 7a pools, 7a IO Strips, 504 debentures (SBAP) and SBIC (SBIC) debentures indexes together into one suite of indexes.

There are both actual and equal weighted indexes, following the same sub-indexes we have in each of the four primary indexes, above.

Both the actual and equal weighted indexes use actual program sizes to weight the composites, while using the appropriate weighted primary index. Due to the relative

changes in program sizes over time, a single weighting formula for the equal weighted indexes would cause balancing issues as the three SBA programs have grown (and will grow) at different rates over time. The only way to maintain a proper balance was to weight the equal indexes using actual program sizes.

As always, there is a more detailed description of each new index in the Glossary, which is at the end of the report.

### 7a Secondary Market Update

Before delving more deeply into returns, let's examine the state of the secondary market. Turning to the Rich/Cheap analysis on page 14, we see both long and short maturities decreased significantly (became less "Rich"), pushing the short maturity deep into the Fair Value Band while long maturities fell into "Cheap" territory. In fact, both short and long maturities are the "cheapest" they have been all year.

*Continued on page 13*

## SMALL BUSINESS FACT OF THE MONTH

Angel investors put \$24.8 billion into 70,730 U.S. businesses in 2013, which represents a 41% increase over the \$17.6 billion they put into 57,225 businesses in 2009.



**Coleman**  
*presents*

**BINGHAM**

**7th Annual SBA  
Secondary Market Forum  
Where Wall Street  
Meets Main Street**

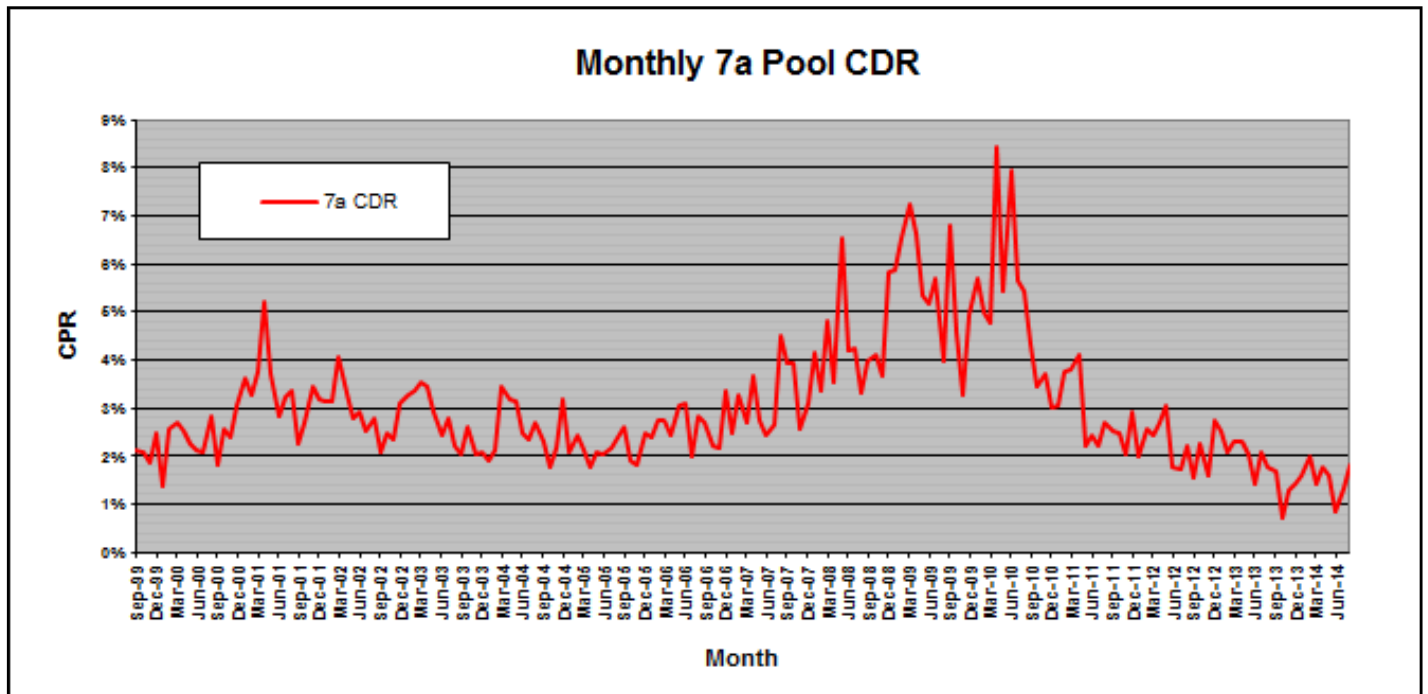
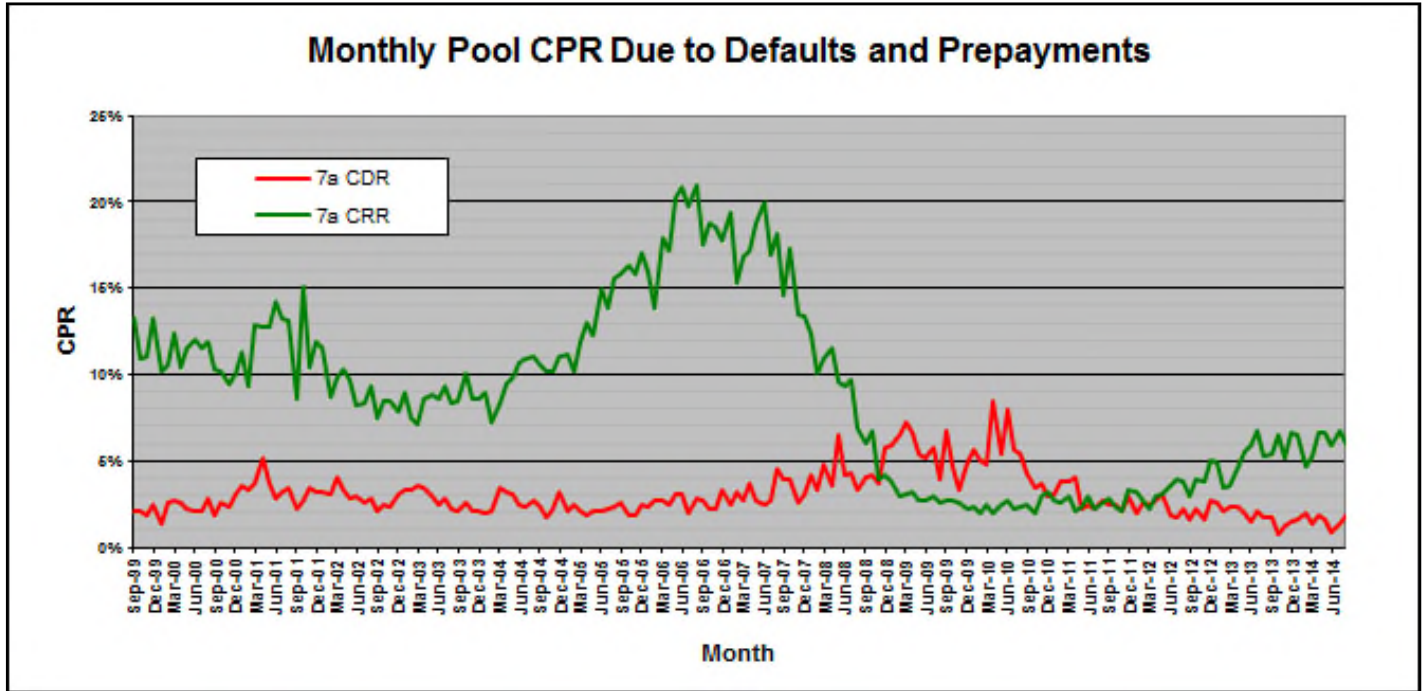
**Bingham Penthouse  
Conference Room  
2020 K Street, NW  
(11th Floor)  
Washington, D.C. 20006  
December 2, 2014**

**Website:**

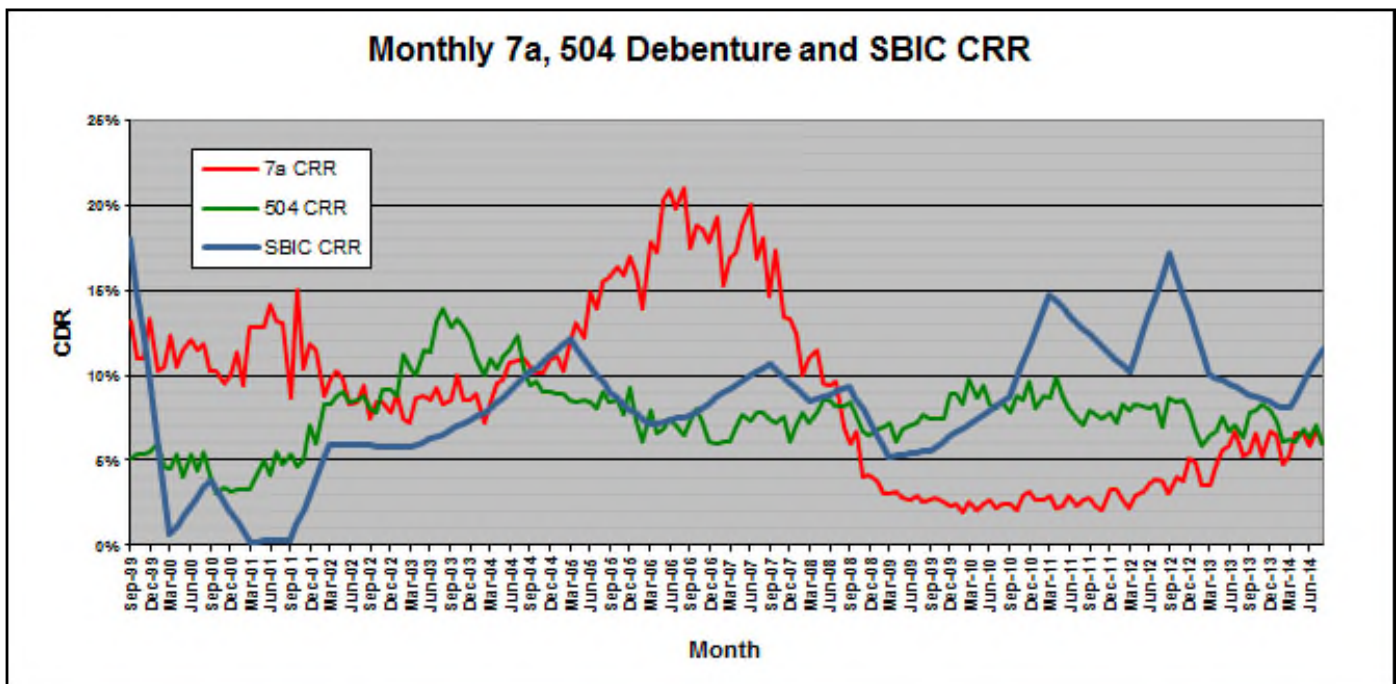
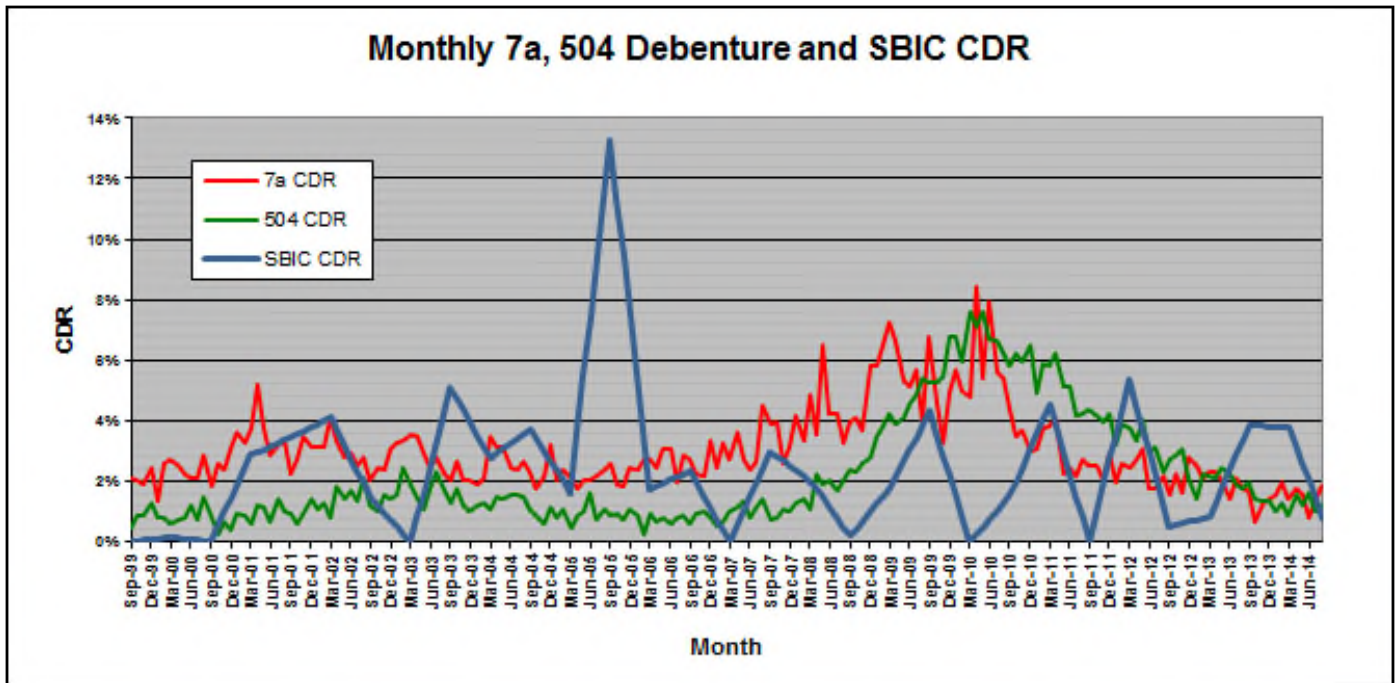
**<http://www.colemanreport.com/shop/2014secondarymarketforum/>**



# PREPAYMENT SPEEDS...CONTINUED



# PREPAYMENT SPEEDS...CONTINUED







***The Preston Group, LLC***

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## PREPAYMENT SPEEDS...CONTINUED

year is running 6.70% ahead of last year, 7.64% versus 7.16%.

As for the largest sector of the market, 20+ years to maturity, prepayment speeds fell by 7% to 7.75% from 8.29%.

Turning to the CPR breakdown, the default CPR increased by 37% to 1.84% while the voluntary prepayment CPR fell by 12% to 5.96%.

Preliminary data for next month suggests that prepayments will remain close to September levels and remain below 8%.

Turning to our maturity buckets, prepayment speeds fell in two out of six categories.

Decreases were seen, by order of magnitude, in the 10-13 year

sector (-9% to CPR 8.14%) and 20+ (-7% to CPR 7.75%).

Increases were seen, also by order of magnitude, in 16-20 (+51% to CPR 8.07%), <8 (+23% to CPR 13.48%), 8-10 (+11% to CPR 6.20%) and 13-16 (+6% to CPR 3.67%).

As we near the end of 2014, prepayment speeds have leveled off in the high 7s to low 8s, which represents a single digit percentage increase over last year.

*For further information on the terminology and concepts used in this article, please refer to the "Glossary and Definitions" at the end of the report.*

***"As we near the end of 2014, prepayment speeds have leveled off in the high 7s to low 8s, which represents a single digit percentage increase over last year."***

*Data on pages 30-32*



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**Thomas USAF**

## NOW A SECONDARY MARKET OUTLET FOR NON GUARANTEED RURAL LOANS

Thomas USAF Group is now offering Banks the opportunity to sell their a) 504 first mortgages b) unguaranteed portions of USDA loans or c) other conventional loans to "Essential Rural Businesses" and Businesses catering to the "Agricultural Sector." This is a Nationwide program for Existing Businesses. USDA's definition of Rural shall determine eligibility.

**Targeted Rural Businesses must be Essential to Rural Communities. Examples include a) Health Care b) Eldercare c) Housing d) Community Facilities**

**Businesses Catering to or Involved in the Agriculture Sector can be located in either rural or urban areas. Examples of Businesses Involved in or Catering to Agriculture Sector include a) Agriculture Production b) Agriculture Manufacturing c) Animal Healthcare, Production and Distribution of Ag products d) Businesses Utilizing Ag Products or otherwise catering to Ag Sector**



**Premiums Paid:** Depending on rate, term, collateral, reset frequency and prepayment penalty, etc.

**Debt Service Coverage:** Loans must demonstrate a consistent minimum global DSC of 1.20x

**Term:** 20-25 years with up to a 30 year Amortization –depending on economic life of collateral

**General Rates:** Rates as low as 5% can be structured flexibly—ranging from quarterly adjust to adjusting every 1,3,5,7,10 or 15 years. Fixed rate options available

**Loan Size:** Preferred Loan Size is \$5,000,000 and up. Minimum Loan Size: \$ 2,500,000

**Loan to Value:** Up to 90% on SBA 504 loans and typically up to 75% on conventional loans

**Strong Prepayment Penalty** as is customary in 504 debentures preferred; minimum 5% flat for 5 years

**Exclusions:** Rural Businesses generally excluded from this program: Hospitality, Restaurants, Gas stations, Car Washes, Start-ups and Turnarounds, Faith-based projects, Big Box businesses and projects involving Environmental Sensitivity. Borrowers involved in Agriculture may qualify for exceptions

**Customer Relationships:** Lenders can continue to maintain the customer relationships

**Secondary Market Takeout:** TUSAF can purchase up to 100% of the loan through table funding

**Advantages of the Program:** Ability to sell obviates the need to balance sheet the loan mitigating capital requirements. In addition to recycling liquidity, Lenders can make premium income, whilst retaining client and depositary relationship. Additional product line offering to customers. Could solve legal lending limit and concentration issues. Table Funding Option available

For details, call Vasu Srinivasan 404-365-2030 /[vasu@thomasusaf.com](mailto:vasu@thomasusaf.com) or  
Mike Thomas at 404-365-2042 /[mike@thomasusaf.com](mailto:mike@thomasusaf.com)

## FIXED RATE PREPAYMENT SPEEDS

CPR/MO	Fixed Balance	Fixed CPR	Floating Balance	Floating CPR	Diff
Aug-12	\$83,110,186	8.69%	\$18,883,931,442	5.60%	3.09%
Sep-12	\$81,476,965	13.64%	\$19,128,581,694	5.99%	7.65%
Oct-12	\$90,464,684	1.62%	\$19,132,310,984	4.52%	-2.90%
Nov-12	\$89,964,205	2.71%	\$19,257,286,800	6.24%	-3.53%
Dec-12	\$89,016,690	8.39%	\$19,317,516,697	5.39%	3.00%
Jan-13	\$108,694,677	0.00%	\$19,529,368,113	7.84%	-7.84%
Feb-13	\$108,294,526	0.76%	\$19,681,986,136	7.43%	-6.67%
Mar-13	\$122,625,804	6.08%	\$19,919,803,325	5.57%	0.51%
Apr-13	\$146,152,848	12.46%	\$19,995,683,246	5.86%	6.60%
May-13	\$147,956,747	12.83%	\$20,309,131,697	7.00%	5.83%
Jun-13	\$146,436,556	3.47%	\$20,285,845,633	7.59%	-4.12%
Jul-13	\$161,702,474	0.61%	\$20,351,433,674	7.29%	-6.67%
Aug-13	\$179,051,066	0.19%	\$20,253,432,436	8.83%	-8.63%
Sep-13	\$177,857,935	15.32%	\$20,336,071,871	7.01%	8.31%
Oct-13	\$182,039,455	9.09%	\$20,587,575,276	7.11%	1.98%
Nov-13	\$182,306,659	15.74%	\$20,538,221,052	7.23%	8.51%
Dec-13	\$180,295,921	8.93%	\$20,729,799,282	6.50%	2.43%
Jan-14	\$177,733,178	12.38%	\$21,022,306,031	8.09%	4.29%
Feb-14	\$176,575,556	3.76%	\$21,093,215,494	8.10%	-4.34%
Mar-14	\$175,789,793	1.31%	\$21,373,131,940	6.70%	-5.39%
Apr-14	\$172,071,630	18.77%	\$21,493,632,332	6.65%	12.11%
May-14	\$170,784,401	4.81%	\$21,718,091,815	8.38%	-3.56%
Jun-14	\$168,722,262	9.95%	\$21,940,929,504	8.19%	1.76%
Jul-14	\$176,381,998	4.95%	\$22,167,851,490	6.72%	-1.76%
Aug-14	\$175,501,952	1.92%	\$22,329,187,134	8.14%	-6.22%
Sep-14	\$174,605,525	2.03%	\$22,331,731,520	7.79%	-5.76%

For the third month in a row, we saw fixed rate prepayment speeds below their floating rate brethren. In September, fixed rate CPRs rose by 6% while floating rate CPRs decreased by 2%.

The CPR 2.03% reading is the third lowest this year and well below the 2014 average for all 7a pools.

Over the past 5 months, fixed rate pools have significantly outperformed floating rate ones, at least from a prepayment perspective.

*For further information on the terminology and concepts used in this article, please refer to the "Glossary and Definitions" at the end of the report.*





## SBIC DEBENTURE PREPAYMENT SPEEDS

### Historical SBIC Defaults and Voluntary Prepayments, 1999 to Present

MONTH	SBIC DEB CDR	SBIC DEB CRR	SBIC DEB CPR	SBIC DEB AMORT EQUIV CPR
9/1/1999	0.00%	18.68%	18.68%	10.69%
3/1/2000	0.17%	0.63%	0.79%	-11.34%
9/1/2000	0.00%	3.89%	3.89%	-6.40%
3/1/2001	2.89%	0.20%	3.08%	-7.56%
9/1/2001	3.47%	0.28%	3.74%	-5.41%
3/1/2002	4.14%	6.03%	10.04%	0.13%
9/1/2002	1.47%	5.94%	7.37%	-3.09%
3/1/2003	0.00%	5.81%	5.81%	-3.70%
9/1/2003	5.13%	6.84%	11.79%	2.60%
3/1/2004	2.79%	8.11%	10.78%	0.24%
9/1/2004	3.74%	10.37%	13.92%	3.82%
3/1/2005	1.63%	12.43%	13.95%	3.83%
9/1/2005	13.67%	9.19%	22.19%	13.21%
3/1/2006	1.76%	7.18%	8.88%	-1.77%
9/1/2006	2.34%	7.75%	10.00%	0.13%
3/1/2007	0.00%	9.39%	9.39%	-0.40%
9/1/2007	2.99%	10.91%	13.73%	3.57%
3/1/2008	2.04%	8.57%	10.53%	0.52%
9/1/2008	0.19%	9.53%	9.71%	-1.12%
3/1/2009	1.79%	5.23%	6.97%	-3.65%
9/1/2009	4.36%	5.64%	9.87%	-1.02%
3/1/2010	0.00%	7.22%	7.22%	-4.32%
9/1/2010	1.50%	8.87%	10.30%	-1.09%
3/1/2011	4.51%	15.21%	19.36%	9.14%
9/1/2011	0.00%	12.66%	12.66%	2.32%
3/1/2012	5.45%	10.39%	15.55%	5.42%
9/1/2012	0.50%	17.80%	18.26%	8.37%
3/1/2013	0.84%	10.28%	11.08%	1.75%
9/1/2013	3.89%	9.07%	12.78%	2.70%
3/1/2014	3.82%	8.10%	11.76%	1.45%
9/1/2014	0.16%	12.17%	12.33%	1.76%

### SBIC Defaults and Voluntary Prepayments by Debenture Age

SBIC DEB AGE	SBIC CDR	SBIC CRR	SBIC CPR	AMORT EQUIV CPR
0	0.00%	0.00%	0.00%	0.00%
6	0.48%	1.25%	1.73%	-6.86%
12	0.43%	1.45%	1.88%	-7.24%
18	0.39%	2.12%	2.51%	-7.17%
24	1.52%	2.11%	3.61%	-6.57%
30	2.76%	7.87%	10.51%	0.40%
36	2.00%	8.01%	9.93%	-1.05%
42	1.79%	11.53%	13.21%	1.75%
48	2.59%	15.19%	17.58%	5.66%
54	4.72%	15.96%	20.28%	7.61%
60	3.88%	22.93%	26.33%	13.26%
66	5.27%	34.39%	38.64%	26.34%
72	5.36%	30.73%	35.17%	20.29%
78	5.75%	27.33%	32.22%	14.00%
84	7.52%	23.04%	29.62%	7.04%
90	4.29%	15.48%	19.42%	-12.46%
96	12.90%	30.47%	41.15%	11.03%
102	9.90%	24.16%	32.75%	-15.08%
108	13.22%	33.91%	44.57%	-19.17%
114	21.52%	34.31%	51.51%	-82.00%
120	24.52%	0.00%	24.52%	0.00%

tion Equivalent CPR (AECPR) calculation, we see that prepaes actually increased by 21% to AECPR 1.76% from AECPR 1.45%.

Turning to the components, defaults fell by 96% to CDR 0.16% from CDR 3.82%. As for the un-amortized CRR, we saw that increase by 50% to CRR 12.17% from CRR 8.10%. By the way, this reading is the sixth highest since 1999.

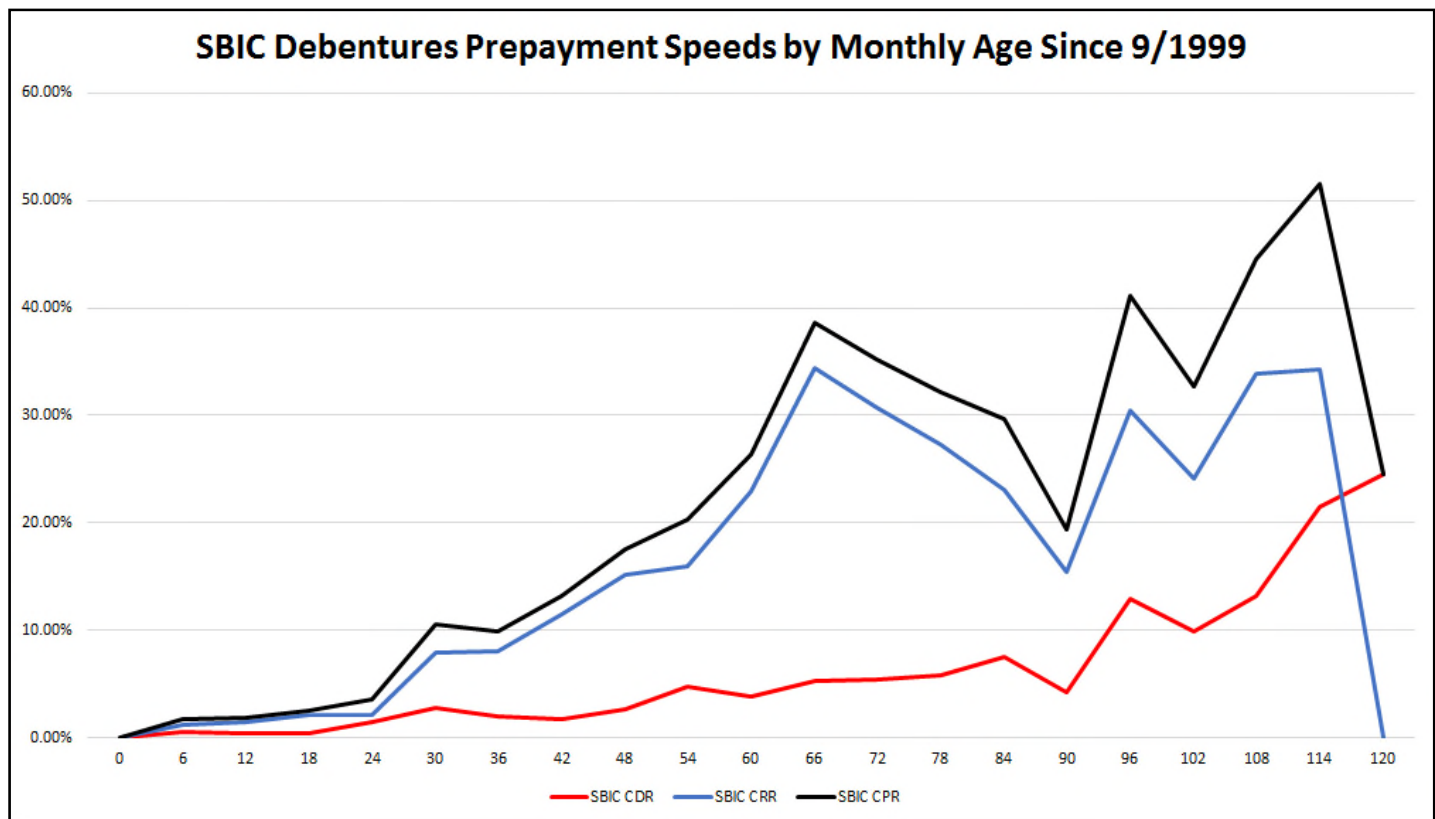
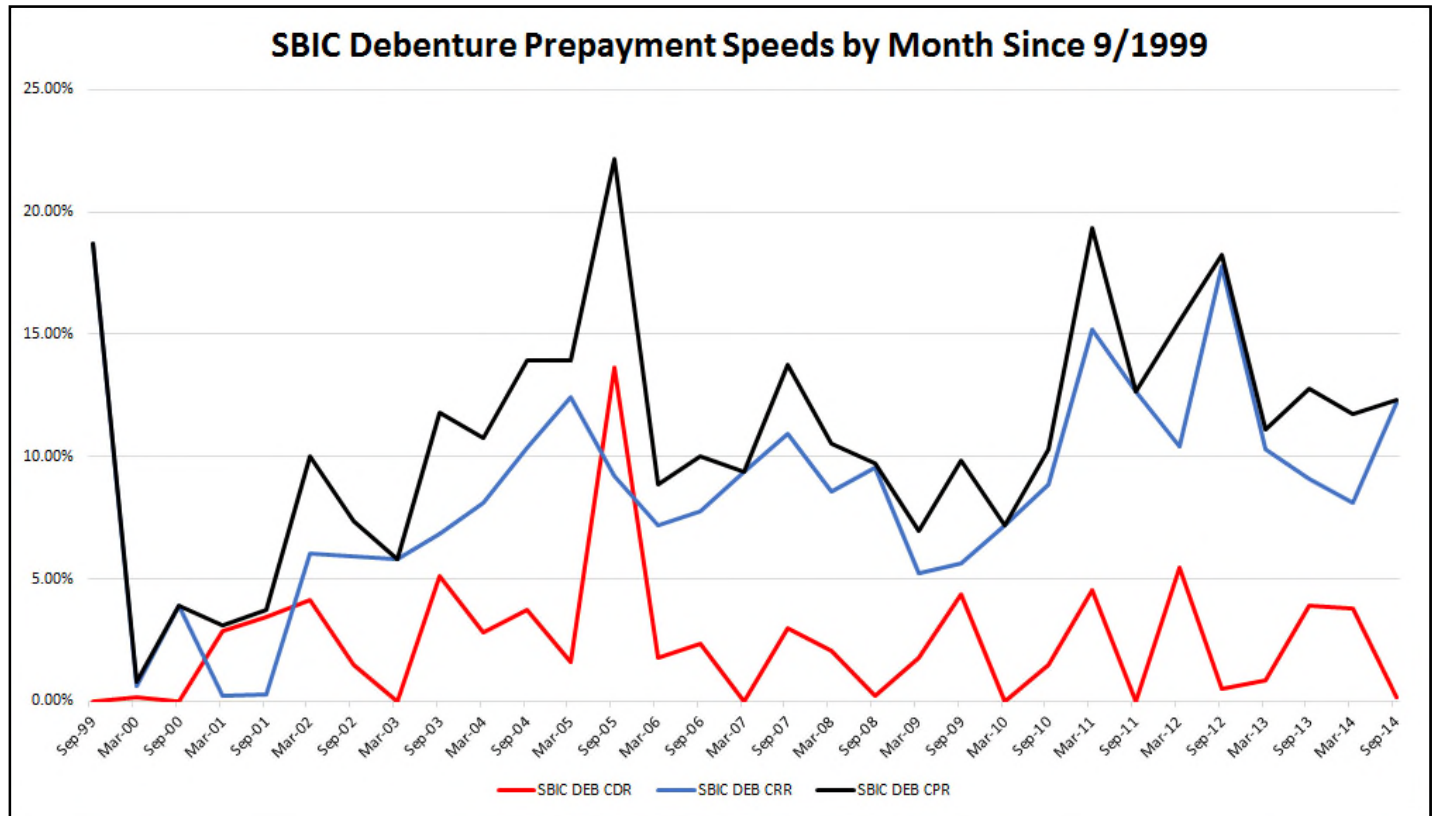
We won't have another update until next March, so see you then...

For SBIC debentures, this month does not provide an update for prepayment speeds. For those who didn't get a chance to read last month's entry, here it is repeated this month:

For September, we saw overall CPRs rise by 5% to CPR 12.33% from CPR 11.76%. Once we correct for amortization using our Amortiza-

*For further information on the terminology and concepts used in this article, please refer to the "Glossary and Definitions" at the end of the report.*

## SBIC DEBENTURE PREPAYMENT SPEEDS





## SMALL BUSINESS INDEXES

By the end of October, pricing in the secondary market continued to erode due to high loan volumes and issues in the USDA secondary market. Unfortunately, there was a \$180 million fraud perpetrated in the USDA secondary market that bled over into the SBA secondary market, adding to the downward pricing pressure that was already evident from large loan sales.

### SBI Index Results

October saw decreases over the one-month time horizon for SBA Pools and SBA IO Strips, but increases for SBAPs, SBICs and our new Composite Index.

SBA 7a pools returned  $-0.39\%$  for actual weighting and  $-0.36\%$  for equal this month versus  $-0.08\%$  /  $-0.11\%$  last month. Declines in the secondary market again drove the Price sub-index down  $-0.51\%$  /  $-0.48\%$ , leading the overall SBA pool indexes down.

For IO Strips, we witnessed declines of  $-6.66\%$  /  $-6.60\%$ , also due to declines in the price sub-indexes of  $-6.35\%$  /  $-6.34\%$ .

Turning to our new 504 debenture index, we saw a increases of  $+0.75\%$  /  $+0.71\%$ , which were strongly influenced by price rises of  $+0.69\%$  /  $+0.62\%$ . The SBIC debenture indexes, not surprisingly, followed the trend seen in 504, coming in at  $+0.54\%$  /  $+0.35\%$ , with price increases of  $+0.48\%$  /  $+0.41\%$ .

Our new Composite Index eked out small gains of  $+0.09\%$  /  $+0.07\%$  as the rises in the SBAP and SBIC indexes were enough to offset the losses in both 7a indexes.

If you wish to further delve into the SBI Indexes, please visit our website at [www.sbindexes.com](http://www.sbindexes.com). Registration is currently free and it contains a host of information relating to these indexes, as well as indexing in general.

*For further information on the SBI Indexes, please refer to the "Glossary and Definitions" at the end of the report.*

*Data and Charts begin on the next page*



SB Indexes, LLC.

**Through the joint venture of Ryan ALM, Inc. and GLS, both companies have brought their unique capabilities together to create the first Total Return Indexes for SBA 7(a) Pools and SBA 7(a) Interest-Only Strips, with a history going back to January 1st, 2000.**

**Using the "Ryan Rules" for index creation, the SBI indexes represent best practices in both structure and transparency.**

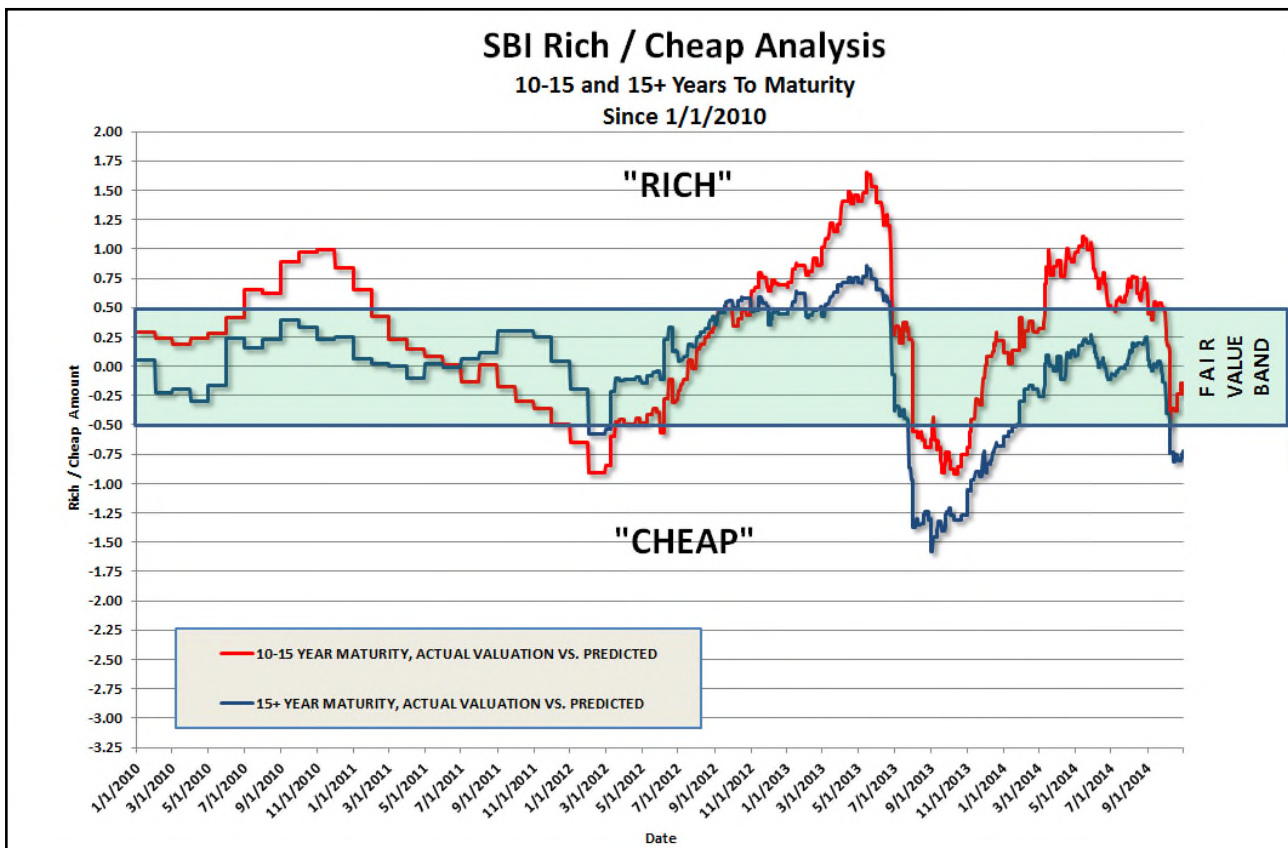
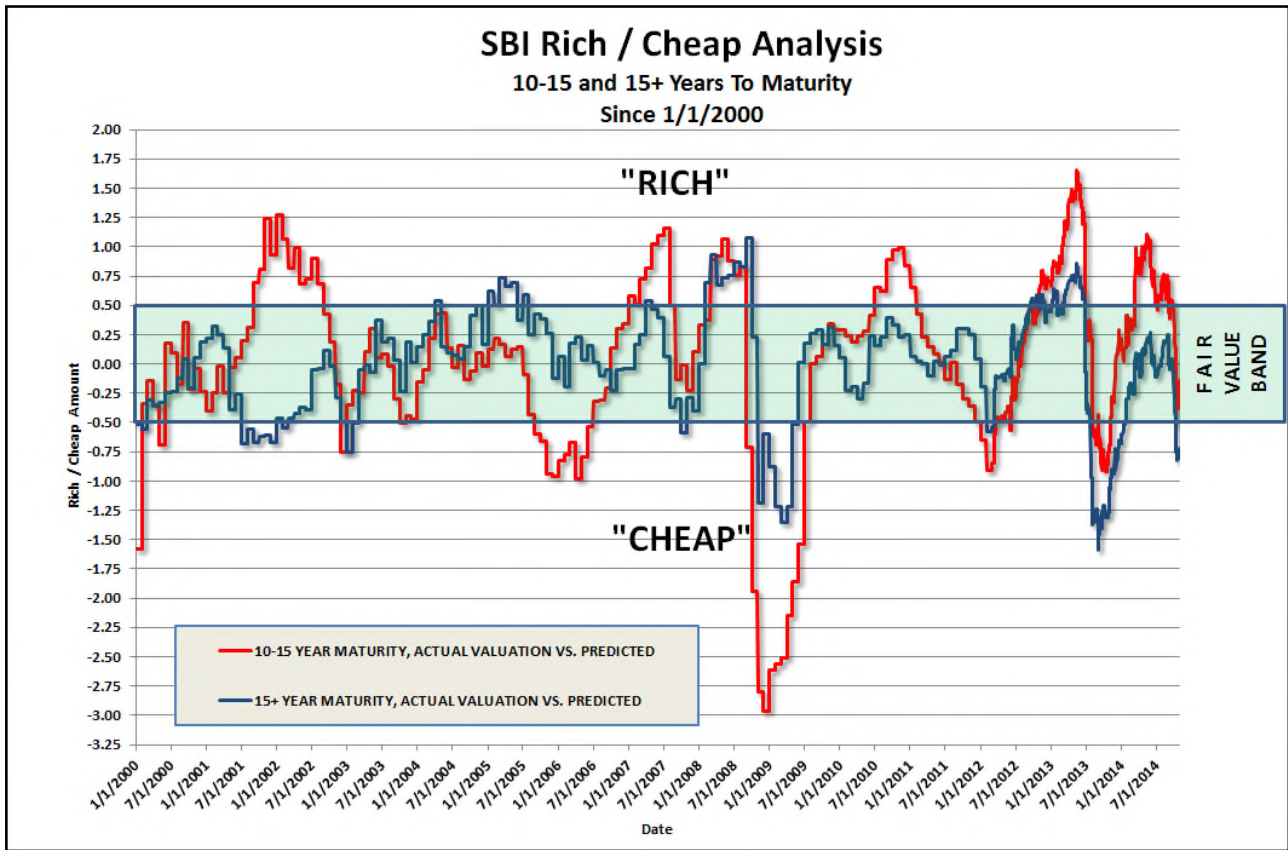
### Principals:

Ronald J. Ryan, CFA, Founder and CEO of Ryan ALM, Inc. Ron has a long history of designing bond indexes, starting at Lehman Brothers, where he designed most of the popular Lehman bond indexes. Over his distinguished career, Ron and his team have designed hundreds of bond indexes and ETFs.

Bob Judge, Partner, GLS. Bob, a recognized expert in the valuation of SBA-related assets as well as the SBA Secondary Market and is the editor of The CPR Report, a widely-read monthly publication that tracks SBA loan defaults, prepayment and secondary market activity.

**For more information, please visit our website: [www.SBIndexes.com](http://www.SBIndexes.com)**

## SMALL BUSINESS INDEXES...CONTINUED





## SMALL BUSINESS INDEXES...CONTINUED

END DATE: 10/31/2014	SBI POOL INDEX TOTAL RETURN							
INDEX TYPE	1 MONTH	3 MONTH	6 MONTH	1 YEAR	3 YEAR	5 YEAR	10 YEAR	INCEPTION
POOL, ALL EQUAL INDEX	(0.36%)	(0.27%)	0.01%	1.76%	6.38%	24.86%	73.43%	120.31%
POOL, ALL ACTUAL INDEX	(0.39%)	(0.33%)	(0.05%)	1.77%	5.74%	17.94%	53.80%	94.84%
POOL, LONG EQUAL INDEX	(0.34%)	(0.25%)	0.03%	1.69%	7.00%	29.26%	85.40%	135.99%
POOL, LONG ACTUAL INDEX	(0.37%)	(0.30%)	(0.04%)	1.68%	6.14%	20.40%	60.24%	103.33%
POOL, SHORT EQUAL INDEX	(0.40%)	(0.36%)	(0.05%)	2.00%	4.80%	14.80%	46.92%	84.51%
POOL, SHORT ACTUAL INDEX	(0.44%)	(0.41%)	(0.07%)	2.08%	4.69%	12.39%	40.07%	75.70%
POOL, ALL EQUAL INCOME INDEX	0.21%	0.63%	1.26%	2.53%	9.26%	27.03%	91.16%	146.94%
POOL, ALL ACTUAL INCOME INDEX	0.22%	0.64%	1.29%	2.60%	8.64%	20.01%	68.92%	117.11%
POOL, LONG EQUAL INCOME INDEX	0.19%	0.57%	1.14%	2.29%	8.83%	29.34%	100.07%	158.23%
POOL, LONG ACTUAL INCOME INDEX	0.20%	0.58%	1.17%	2.36%	8.04%	20.49%	72.09%	120.94%
POOL, SHORT EQUAL INCOME INDEX	0.28%	0.82%	1.65%	3.29%	10.60%	21.97%	71.64%	124.13%
POOL, SHORT ACTUAL INCOME INDEX	0.29%	0.85%	1.70%	3.39%	10.50%	19.43%	63.43%	112.46%
POOL, ALL EQUAL PRICE INDEX	(0.48%)	(0.62%)	(0.69%)	0.30%	(0.02%)	1.97%	(1.46%)	0.05%
POOL, ALL ACTUAL PRICE INDEX	(0.51%)	(0.67%)	(0.75%)	0.29%	(0.02%)	1.98%	(1.44%)	0.01%
POOL, LONG EQUAL PRICE INDEX	(0.45%)	(0.58%)	(0.63%)	0.32%	0.41%	2.70%	(0.76%)	0.84%
POOL, LONG ACTUAL PRICE INDEX	(0.48%)	(0.63%)	(0.69%)	0.28%	0.35%	2.66%	(0.77%)	0.78%
POOL, SHORT EQUAL PRICE INDEX	(0.55%)	(0.77%)	(0.91%)	0.23%	(1.19%)	0.09%	(3.23%)	(2.48%)
POOL, SHORT ACTUAL PRICE INDEX	(0.59%)	(0.83%)	(0.94%)	0.30%	(1.07%)	0.20%	(3.21%)	(2.46%)
POOL, ALL EQUAL PREPAY INDEX	(0.06%)	(0.18%)	(0.35%)	(0.66%)	(1.54%)	(2.06%)	(5.79%)	(8.18%)
POOL, ALL ACTUAL PREPAY INDEX	(0.07%)	(0.20%)	(0.38%)	(0.71%)	(1.57%)	(2.07%)	(5.50%)	(7.67%)
POOL, LONG EQUAL PREPAY INDEX	(0.06%)	(0.17%)	(0.34%)	(0.64%)	(1.37%)	(1.73%)	(5.32%)	(7.65%)
POOL, LONG ACTUAL PREPAY INDEX	(0.07%)	(0.19%)	(0.38%)	(0.68%)	(1.39%)	(1.72%)	(4.92%)	(7.06%)
POOL, SHORT EQUAL PREPAY INDEX	(0.06%)	(0.20%)	(0.38%)	(0.72%)	(1.99%)	(2.89%)	(6.94%)	(9.69%)
POOL, SHORT ACTUAL PREPAY INDEX	(0.07%)	(0.22%)	(0.41%)	(0.79%)	(2.08%)	(2.96%)	(6.87%)	(9.40%)
POOL, ALL EQUAL DEFAULT INDEX	(0.01%)	(0.03%)	(0.07%)	(0.13%)	(0.44%)	(0.77%)	(1.40%)	(1.96%)
POOL, ALL ACTUAL DEFAULT INDEX	(0.02%)	(0.04%)	(0.07%)	(0.14%)	(0.45%)	(0.77%)	(1.36%)	(1.86%)
POOL, LONG EQUAL DEFAULT INDEX	(0.01%)	(0.03%)	(0.07%)	(0.13%)	(0.38%)	(0.60%)	(1.16%)	(1.71%)
POOL, LONG ACTUAL DEFAULT INDEX	(0.02%)	(0.03%)	(0.07%)	(0.13%)	(0.38%)	(0.59%)	(1.08%)	(1.58%)
POOL, SHORT EQUAL DEFAULT INDEX	(0.01%)	(0.03%)	(0.07%)	(0.14%)	(0.61%)	(1.18%)	(1.98%)	(2.63%)
POOL, SHORT ACTUAL DEFAULT INDEX	(0.02%)	(0.04%)	(0.08%)	(0.16%)	(0.63%)	(1.20%)	(1.98%)	(2.58%)
POOL, ALL EQUAL VOL PREPAY INDEX	(0.05%)	(0.14%)	(0.28%)	(0.53%)	(1.10%)	(1.30%)	(4.45%)	(6.34%)
POOL, ALL ACTUAL VOL PREPAY INDEX	(0.05%)	(0.16%)	(0.31%)	(0.57%)	(1.13%)	(1.32%)	(4.20%)	(5.92%)
POOL, LONG EQUAL VOL PREPAY INDEX	(0.05%)	(0.14%)	(0.27%)	(0.51%)	(0.99%)	(1.13%)	(4.21%)	(6.05%)
POOL, LONG ACTUAL VOL PREPAY INDEX	(0.05%)	(0.15%)	(0.30%)	(0.55%)	(1.01%)	(1.14%)	(3.88%)	(5.56%)
POOL, SHORT EQUAL VOL PREPAY INDEX	(0.05%)	(0.17%)	(0.31%)	(0.58%)	(1.39%)	(1.73%)	(5.06%)	(7.25%)
POOL, SHORT ACTUAL VOL PREPAY INDEX	(0.05%)	(0.18%)	(0.33%)	(0.64%)	(1.46%)	(1.79%)	(4.98%)	(7.00%)
POOL, ALL EQUAL SCHED PRIN INDEX	(0.03%)	(0.10%)	(0.20%)	(0.38%)	(1.10%)	(1.58%)	(2.27%)	(2.88%)
POOL, ALL ACTUAL SCHED PRIN INDEX	(0.03%)	(0.10%)	(0.20%)	(0.38%)	(1.10%)	(1.58%)	(2.24%)	(2.80%)
POOL, LONG EQUAL SCHED PRIN INDEX	(0.02%)	(0.07%)	(0.14%)	(0.26%)	(0.72%)	(0.98%)	(1.37%)	(1.86%)
POOL, LONG ACTUAL SCHED PRIN INDEX	(0.02%)	(0.07%)	(0.13%)	(0.26%)	(0.72%)	(0.96%)	(1.30%)	(1.75%)
POOL, SHORT EQUAL SCHED PRIN INDEX	(0.07%)	(0.20%)	(0.39%)	(0.75%)	(2.15%)	(3.17%)	(4.94%)	(6.51%)
POOL, SHORT ACTUAL SCHED PRIN INDEX	(0.07%)	(0.20%)	(0.40%)	(0.77%)	(2.20%)	(3.21%)	(4.91%)	(6.41%)
POOL, ALL EQUAL TOTAL PRIN INDEX	(0.09%)	(0.27%)	(0.55%)	(1.04%)	(2.62%)	(3.61%)	(7.93%)	(10.83%)
POOL, ALL ACTUAL TOTAL PRIN INDEX	(0.10%)	(0.29%)	(0.58%)	(1.09%)	(2.65%)	(3.62%)	(7.62%)	(10.26%)
POOL, LONG EQUAL TOTAL PRIN INDEX	(0.08%)	(0.23%)	(0.48%)	(0.90%)	(2.08%)	(2.69%)	(6.62%)	(9.37%)
POOL, LONG ACTUAL TOTAL PRIN INDEX	(0.09%)	(0.26%)	(0.51%)	(0.94%)	(2.10%)	(2.67%)	(6.16%)	(8.68%)
POOL, SHORT EQUAL TOTAL PRIN INDEX	(0.13%)	(0.40%)	(0.77%)	(1.47%)	(4.10%)	(5.96%)	(11.53%)	(15.58%)
POOL, SHORT ACTUAL TOTAL PRIN INDEX	(0.13%)	(0.42%)	(0.81%)	(1.56%)	(4.23%)	(6.08%)	(11.44%)	(15.21%)

## SMALL BUSINESS INDEXES...CONTINUED

END DATE: 10/31/2014	SBI STRIP INDEX TOTAL RETURN							
INDEX TYPE	1 MONTH	3 MONTH	6 MONTH	1 YEAR	3 YEAR	5 YEAR	10 YEAR	INCEPTION
STRIP, ALL EQUAL INDEX	(6.60%)	(9.42%)	(11.13%)	0.66%	20.53%	111.23%	61.01%	375.88%
STRIP, ALL ACTUAL INDEX	(6.66%)	(9.28%)	(11.36%)	(0.28%)	22.71%	100.52%	34.30%	304.15%
STRIP, LONG EQUAL INDEX	(6.54%)	(8.04%)	(7.56%)	5.13%	36.90%	194.10%	145.96%	689.71%
STRIP, LONG ACTUAL INDEX	(6.73%)	(8.49%)	(8.28%)	3.53%	36.26%	163.12%	79.16%	477.46%
STRIP, SHORT EQUAL INDEX	(6.73%)	(12.44%)	(18.42%)	(8.38%)	(6.14%)	23.13%	(9.71%)	71.92%
STRIP, SHORT ACTUAL INDEX	(6.52%)	(11.00%)	(17.70%)	(8.06%)	(1.10%)	30.01%	(8.01%)	108.41%
STRIP, ALL EQUAL INCOME INDEX	0.91%	2.61%	5.24%	11.12%	50.56%	152.08%	610.80%	2,252.61%
STRIP, ALL ACTUAL INCOME INDEX	0.88%	2.54%	5.08%	10.86%	48.36%	128.55%	443.96%	1,680.41%
STRIP, LONG EQUAL INCOME INDEX	1.00%	2.86%	5.80%	12.48%	59.52%	197.88%	853.61%	3,134.66%
STRIP, LONG ACTUAL INCOME INDEX	0.97%	2.80%	5.66%	12.35%	57.50%	161.28%	554.50%	2,091.53%
STRIP, SHORT EQUAL INCOME INDEX	0.71%	2.05%	4.04%	8.29%	35.55%	94.86%	361.79%	1,238.85%
STRIP, SHORT ACTUAL INCOME INDEX	0.68%	1.97%	3.82%	7.74%	32.99%	86.32%	323.96%	1,126.90%
STRIP, ALL EQUAL PRICE INDEX	(6.34%)	(8.64%)	(9.60%)	3.59%	15.56%	51.28%	27.06%	131.13%
STRIP, ALL ACTUAL PRICE INDEX	(6.35%)	(8.40%)	(9.65%)	2.74%	17.92%	56.59%	30.96%	144.94%
STRIP, LONG EQUAL PRICE INDEX	(6.50%)	(7.98%)	(7.43%)	4.53%	13.27%	51.22%	22.30%	132.79%
STRIP, LONG ACTUAL PRICE INDEX	(6.61%)	(8.28%)	(7.90%)	2.99%	12.63%	51.54%	22.86%	138.34%
STRIP, SHORT EQUAL PRICE INDEX	(5.98%)	(10.09%)	(14.12%)	1.46%	17.70%	49.33%	37.32%	89.76%
STRIP, SHORT ACTUAL PRICE INDEX	(5.80%)	(8.66%)	(13.30%)	2.12%	25.30%	63.04%	43.14%	130.32%
STRIP, ALL EQUAL PREPAY INDEX	(0.73%)	(2.08%)	(4.08%)	(7.76%)	(18.28%)	(27.07%)	(70.98%)	(83.86%)
STRIP, ALL ACTUAL PREPAY INDEX	(0.77%)	(2.19%)	(4.25%)	(7.90%)	(17.80%)	(26.67%)	(69.54%)	(83.08%)
STRIP, LONG EQUAL PREPAY INDEX	(0.73%)	(2.00%)	(4.01%)	(7.53%)	(16.32%)	(23.16%)	(71.24%)	(84.19%)
STRIP, LONG ACTUAL PREPAY INDEX	(0.80%)	(2.16%)	(4.23%)	(7.66%)	(15.63%)	(22.44%)	(70.14%)	(83.65%)
STRIP, SHORT EQUAL PREPAY INDEX	(0.72%)	(2.26%)	(4.23%)	(8.25%)	(21.59%)	(32.69%)	(67.77%)	(80.04%)
STRIP, SHORT ACTUAL PREPAY INDEX	(0.70%)	(2.27%)	(4.30%)	(8.41%)	(21.50%)	(32.50%)	(66.65%)	(78.94%)
STRIP, ALL EQUAL DEFAULT INDEX	(0.17%)	(0.37%)	(0.79%)	(1.57%)	(5.75%)	(12.37%)	(27.19%)	(35.80%)
STRIP, ALL ACTUAL DEFAULT INDEX	(0.18%)	(0.40%)	(0.83%)	(1.59%)	(5.55%)	(12.23%)	(26.85%)	(35.53%)
STRIP, LONG EQUAL DEFAULT INDEX	(0.17%)	(0.36%)	(0.79%)	(1.52%)	(4.93%)	(9.97%)	(25.34%)	(34.33%)
STRIP, LONG ACTUAL DEFAULT INDEX	(0.19%)	(0.40%)	(0.83%)	(1.54%)	(4.63%)	(9.65%)	(24.89%)	(34.01%)
STRIP, SHORT EQUAL DEFAULT INDEX	(0.17%)	(0.39%)	(0.81%)	(1.68%)	(7.15%)	(15.79%)	(28.82%)	(35.85%)
STRIP, SHORT ACTUAL DEFAULT INDEX	(0.17%)	(0.39%)	(0.82%)	(1.70%)	(7.10%)	(15.69%)	(28.67%)	(35.44%)
STRIP, ALL EQUAL VOL PREPAY INDEX	(0.56%)	(1.71%)	(3.31%)	(6.28%)	(13.27%)	(16.74%)	(60.05%)	(74.77%)
STRIP, ALL ACTUAL VOL PREPAY INDEX	(0.59%)	(1.80%)	(3.45%)	(6.40%)	(12.96%)	(16.42%)	(58.27%)	(73.67%)
STRIP, LONG EQUAL VOL PREPAY INDEX	(0.56%)	(1.64%)	(3.24%)	(6.10%)	(11.97%)	(14.63%)	(61.38%)	(75.83%)
STRIP, LONG ACTUAL VOL PREPAY INDEX	(0.61%)	(1.77%)	(3.42%)	(6.20%)	(11.52%)	(14.14%)	(60.14%)	(75.13%)
STRIP, SHORT EQUAL VOL PREPAY INDEX	(0.55%)	(1.88%)	(3.45%)	(6.67%)	(15.53%)	(20.02%)	(54.64%)	(68.81%)
STRIP, SHORT ACTUAL VOL PREPAY INDEX	(0.54%)	(1.88%)	(3.50%)	(6.81%)	(15.47%)	(19.89%)	(53.15%)	(67.30%)
STRIP, ALL EQUAL SCHED PRIN INDEX	(0.43%)	(1.28%)	(2.56%)	(5.09%)	(15.01%)	(24.03%)	(37.63%)	(45.31%)
STRIP, ALL ACTUAL SCHED PRIN INDEX	(0.41%)	(1.21%)	(2.43%)	(4.84%)	(14.48%)	(23.59%)	(37.25%)	(44.83%)
STRIP, LONG EQUAL SCHED PRIN INDEX	(0.28%)	(0.83%)	(1.65%)	(3.25%)	(9.33%)	(15.07%)	(25.41%)	(33.03%)
STRIP, LONG ACTUAL SCHED PRIN INDEX	(0.26%)	(0.78%)	(1.55%)	(3.06%)	(8.83%)	(14.35%)	(24.19%)	(31.77%)
STRIP, SHORT EQUAL SCHED PRIN INDEX	(0.76%)	(2.27%)	(4.51%)	(8.87%)	(24.59%)	(36.95%)	(55.24%)	(65.71%)
STRIP, SHORT ACTUAL SCHED PRIN INDEX	(0.72%)	(2.16%)	(4.31%)	(8.53%)	(24.06%)	(36.48%)	(54.01%)	(64.69%)
STRIP, ALL EQUAL TOTAL PRIN INDEX	(1.16%)	(3.34%)	(6.55%)	(12.49%)	(30.61%)	(44.67%)	(81.98%)	(91.22%)
STRIP, ALL ACTUAL TOTAL PRIN INDEX	(1.18%)	(3.39%)	(6.60%)	(12.39%)	(29.76%)	(44.05%)	(80.97%)	(90.72%)
STRIP, LONG EQUAL TOTAL PRIN INDEX	(1.01%)	(2.82%)	(5.60%)	(10.55%)	(24.16%)	(34.78%)	(78.61%)	(89.45%)
STRIP, LONG ACTUAL TOTAL PRIN INDEX	(1.07%)	(2.93%)	(5.73%)	(10.50%)	(23.12%)	(33.61%)	(77.42%)	(88.88%)
STRIP, SHORT EQUAL TOTAL PRIN INDEX	(1.48%)	(4.50%)	(8.58%)	(16.44%)	(40.98%)	(57.69%)	(85.68%)	(93.22%)
STRIP, SHORT ACTUAL TOTAL PRIN INDEX	(1.43%)	(4.39%)	(8.45%)	(16.28%)	(40.50%)	(57.25%)	(84.76%)	(92.63%)



## SMALL BUSINESS INDEXES...CONTINUED

END DATE: 10/31/2014	SBI SBAP INDEX TOTAL RETURN							
INDEX TYPE	1 MONTH	3 MONTH	6 MONTH	1 YEAR	3 YEAR	5 YEAR	10 YEAR	INCEPTION
SBAP, ALL EQUAL INDEX	0.71%	1.00%	(0.10%)	1.85%	4.42%	15.63%	52.19%	112.01%
SBAP, ALL ACTUAL INDEX	0.75%	1.25%	(0.23%)	2.16%	4.93%	17.61%	55.15%	120.31%
SBAP, LONG EQUAL INDEX	0.70%	1.06%	(0.50%)	1.86%	4.66%	17.14%	55.75%	119.74%
SBAP, LONG ACTUAL INDEX	0.75%	1.25%	(0.29%)	2.15%	4.94%	17.73%	55.41%	121.01%
SBAP, SHORT EQUAL INDEX	0.59%	0.85%	1.75%	2.48%	5.25%	13.54%	44.58%	94.33%
SBAP, SHORT ACTUAL INDEX	0.67%	0.98%	2.24%	2.94%	5.24%	13.76%	44.24%	92.99%
SBAP, ALL EQUAL INCOME INDEX	0.29%	0.89%	1.78%	3.64%	12.06%	22.91%	61.65%	120.71%
SBAP, ALL ACTUAL INCOME INDEX	0.31%	0.94%	1.89%	3.85%	12.63%	23.81%	62.63%	121.45%
SBAP, LONG EQUAL INCOME INDEX	0.32%	0.97%	1.97%	4.01%	13.10%	24.56%	65.73%	128.24%
SBAP, LONG ACTUAL INCOME INDEX	0.32%	0.95%	1.91%	3.90%	12.76%	24.00%	62.99%	122.05%
SBAP, SHORT EQUAL INCOME INDEX	0.19%	0.58%	1.17%	2.39%	8.58%	17.51%	48.87%	97.15%
SBAP, SHORT ACTUAL INCOME INDEX	0.17%	0.51%	1.02%	2.06%	7.52%	16.19%	47.18%	95.37%
SBAP, ALL EQUAL PRICE INDEX	0.62%	0.93%	(0.55%)	(0.07%)	(3.04%)	(0.32%)	0.72%	6.38%
SBAP, ALL ACTUAL PRICE INDEX	0.69%	1.15%	(0.81%)	(0.02%)	(3.24%)	0.21%	1.27%	8.33%
SBAP, LONG EQUAL PRICE INDEX	0.68%	1.07%	(0.94%)	(0.20%)	(3.37%)	(0.09%)	1.11%	7.49%
SBAP, LONG ACTUAL PRICE INDEX	0.70%	1.16%	(0.87%)	(0.05%)	(3.30%)	0.19%	1.27%	8.43%
SBAP, SHORT EQUAL PRICE INDEX	0.43%	0.40%	0.73%	0.36%	(1.99%)	(1.25%)	(0.91%)	1.99%
SBAP, SHORT ACTUAL PRICE INDEX	0.47%	0.47%	1.22%	0.93%	(1.35%)	(0.29%)	(0.31%)	2.06%
SBAP, ALL EQUAL PREPAY INDEX	(0.14%)	(0.56%)	(0.89%)	(1.15%)	(2.62%)	(3.72%)	(4.46%)	(6.89%)
SBAP, ALL ACTUAL PREPAY INDEX	(0.17%)	(0.57%)	(0.89%)	(1.14%)	(2.59%)	(3.64%)	(4.14%)	(6.01%)
SBAP, LONG EQUAL PREPAY INDEX	(0.20%)	(0.67%)	(1.01%)	(1.30%)	(2.93%)	(4.05%)	(4.95%)	(7.64%)
SBAP, LONG ACTUAL PREPAY INDEX	(0.18%)	(0.59%)	(0.91%)	(1.16%)	(2.63%)	(3.68%)	(4.19%)	(6.07%)
SBAP, SHORT EQUAL PREPAY INDEX	(0.04%)	(0.12%)	(0.13%)	(0.18%)	(0.55%)	(1.07%)	(1.07%)	(1.80%)
SBAP, SHORT ACTUAL PREPAY INDEX	(0.02%)	(0.06%)	(0.07%)	(0.10%)	(0.42%)	(0.95%)	(0.96%)	(1.78%)
SBAP, ALL EQUAL DEFAULT INDEX	(0.02%)	(0.07%)	(0.11%)	(0.14%)	(0.59%)	(1.23%)	(1.31%)	(1.59%)
SBAP, ALL ACTUAL DEFAULT INDEX	(0.02%)	(0.08%)	(0.13%)	(0.17%)	(0.71%)	(1.47%)	(1.55%)	(1.79%)
SBAP, LONG EQUAL DEFAULT INDEX	(0.02%)	(0.09%)	(0.13%)	(0.17%)	(0.67%)	(1.31%)	(1.39%)	(1.64%)
SBAP, LONG ACTUAL DEFAULT INDEX	(0.02%)	(0.08%)	(0.13%)	(0.17%)	(0.73%)	(1.49%)	(1.56%)	(1.80%)
SBAP, SHORT EQUAL DEFAULT INDEX	(0.01%)	0.00%	0.00%	(0.00%)	(0.11%)	(0.43%)	(0.47%)	(0.72%)
SBAP, SHORT ACTUAL DEFAULT INDEX	(0.00%)	0.00%	0.00%	(0.00%)	(0.09%)	(0.43%)	(0.48%)	(0.75%)
SBAP, ALL EQUAL VOL PREPAY INDEX	(0.13%)	(0.49%)	(0.79%)	(1.01%)	(2.04%)	(2.52%)	(3.19%)	(5.38%)
SBAP, ALL ACTUAL VOL PREPAY INDEX	(0.15%)	(0.49%)	(0.76%)	(0.98%)	(1.89%)	(2.20%)	(2.63%)	(4.30%)
SBAP, LONG EQUAL VOL PREPAY INDEX	(0.18%)	(0.58%)	(0.88%)	(1.13%)	(2.27%)	(2.77%)	(3.61%)	(6.10%)
SBAP, LONG ACTUAL VOL PREPAY INDEX	(0.16%)	(0.50%)	(0.78%)	(0.99%)	(1.91%)	(2.23%)	(2.67%)	(4.35%)
SBAP, SHORT EQUAL VOL PREPAY INDEX	(0.04%)	(0.12%)	(0.13%)	(0.17%)	(0.45%)	(0.64%)	(0.60%)	(1.09%)
SBAP, SHORT ACTUAL VOL PREPAY INDEX	(0.02%)	(0.06%)	(0.07%)	(0.10%)	(0.33%)	(0.52%)	(0.49%)	(1.04%)
SBAP, ALL EQUAL SCHED PRIN INDEX	(0.06%)	(0.25%)	(0.41%)	(0.51%)	(1.31%)	(1.97%)	(2.15%)	(3.01%)
SBAP, ALL ACTUAL SCHED PRIN INDEX	(0.08%)	(0.26%)	(0.39%)	(0.46%)	(1.15%)	(1.62%)	(1.72%)	(2.28%)
SBAP, LONG EQUAL SCHED PRIN INDEX	(0.10%)	(0.32%)	(0.48%)	(0.57%)	(1.34%)	(1.90%)	(2.20%)	(3.01%)
SBAP, LONG ACTUAL SCHED PRIN INDEX	(0.08%)	(0.27%)	(0.40%)	(0.47%)	(1.16%)	(1.62%)	(1.72%)	(2.27%)
SBAP, SHORT EQUAL SCHED PRIN INDEX	0.01%	(0.02%)	(0.03%)	(0.09%)	(0.56%)	(1.10%)	(0.94%)	(1.59%)
SBAP, SHORT ACTUAL SCHED PRIN INDEX	0.05%	0.06%	0.06%	0.03%	(0.36%)	(0.88%)	(0.74%)	(1.47%)
SBAP, ALL EQUAL TOTAL PRIN INDEX	(0.20%)	(0.81%)	(1.30%)	(1.65%)	(3.90%)	(5.61%)	(6.51%)	(9.70%)
SBAP, ALL ACTUAL TOTAL PRIN INDEX	(0.25%)	(0.83%)	(1.28%)	(1.60%)	(3.71%)	(5.20%)	(5.79%)	(8.16%)
SBAP, LONG EQUAL TOTAL PRIN INDEX	(0.30%)	(0.98%)	(1.49%)	(1.87%)	(4.23%)	(5.87%)	(7.04%)	(10.43%)
SBAP, LONG ACTUAL TOTAL PRIN INDEX	(0.26%)	(0.85%)	(1.31%)	(1.63%)	(3.75%)	(5.24%)	(5.84%)	(8.21%)
SBAP, SHORT EQUAL TOTAL PRIN INDEX	(0.04%)	(0.14%)	(0.16%)	(0.27%)	(1.11%)	(2.16%)	(2.00%)	(3.35%)
SBAP, SHORT ACTUAL TOTAL PRIN INDEX	0.03%	(0.00%)	(0.01%)	(0.06%)	(0.78%)	(1.82%)	(1.70%)	(3.22%)

## SMALL BUSINESS INDEXES...CONTINUED

END DATE: 10/31/2014	SBI SBIC INDEX TOTAL RETURN							
INDEX TYPE	1 MONTH	3 MONTH	6 MONTH	1 YEAR	3 YEAR	5 YEAR	10 YEAR	INCEPTION
SBIC, ALL EQUAL INDEX	0.35%	(0.04%)	0.99%	3.04%	8.07%	18.84%	57.11%	117.67%
SBIC, ALL ACTUAL INDEX	0.54%	(0.39%)	0.70%	3.05%	8.57%	20.97%	59.33%	126.31%
SBIC, ALL EQUAL INCOME INDEX	0.27%	0.83%	1.67%	3.40%	11.68%	22.25%	58.82%	116.91%
SBIC, ALL ACTUAL INCOME INDEX	0.25%	0.76%	1.53%	3.10%	10.58%	20.79%	55.64%	110.56%
SBIC, ALL EQUAL PRICE INDEX	0.41%	(0.52%)	(0.33%)	0.40%	(0.55%)	1.32%	3.77%	8.23%
SBIC, ALL ACTUAL PRICE INDEX	0.48%	(0.95%)	(0.62%)	0.38%	(0.17%)	2.98%	5.81%	13.25%
SBIC, ALL EQUAL PREPAY INDEX	(0.34%)	(0.34%)	(0.34%)	(0.76%)	(2.70%)	(4.06%)	(4.67%)	(7.28%)
SBIC, ALL ACTUAL PREPAY INDEX	(0.20%)	(0.20%)	(0.20%)	(0.43%)	(1.66%)	(2.76%)	(3.26%)	(5.10%)
SBIC, ALL EQUAL DEFAULT INDEX	(0.01%)	(0.01%)	(0.01%)	(0.15%)	(0.40%)	(0.52%)	(0.71%)	(1.37%)
SBIC, ALL ACTUAL DEFAULT INDEX	(0.00%)	(0.00%)	(0.00%)	(0.08%)	(0.26%)	(0.36%)	(0.52%)	(1.07%)
SBIC, ALL EQUAL VOL PREPAY INDEX	(0.33%)	(0.33%)	(0.33%)	(0.61%)	(2.31%)	(3.56%)	(3.99%)	(5.99%)
SBIC, ALL ACTUAL VOL PREPAY INDEX	(0.20%)	(0.20%)	(0.20%)	(0.35%)	(1.40%)	(2.40%)	(2.76%)	(4.07%)
SBIC, ALL EQUAL SCHED PRIN INDEX	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
SBIC, ALL ACTUAL SCHED PRIN INDEX	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
SBIC, ALL EQUAL TOTAL PRIN INDEX	(0.34%)	(0.34%)	(0.34%)	(0.76%)	(2.70%)	(4.06%)	(4.67%)	(7.28%)
SBIC, ALL ACTUAL TOTAL PRIN INDEX	(0.20%)	(0.20%)	(0.20%)	(0.43%)	(1.66%)	(2.76%)	(3.26%)	(5.10%)

## SMALL BUSINESS INDEXES...CONTINUED

END DATE: 10/31/2014	SBI COMPOSITE INDEX TOTAL RETURN							
INDEX TYPE	1 MONTH	3 MONTH	6 MONTH	1 YEAR	3 YEAR	5 YEAR	10 YEAR	INCEPTION
COMP, ALL EQUAL INDEX	0.07%	0.09%	(0.29%)	1.95%	5.86%	19.68%	59.24%	117.65%
COMP, ALL ACTUAL INDEX	0.09%	0.16%	(0.44%)	2.09%	6.13%	19.40%	56.62%	116.53%
COMP, LONG EQUAL INDEX	0.13%	0.34%	(0.53%)	1.92%	6.06%	21.58%	64.14%	126.66%
COMP, LONG ACTUAL INDEX	0.13%	0.41%	(0.45%)	2.06%	6.06%	20.02%	58.73%	119.96%
COMP, SHORT EQUAL INDEX	(0.14%)	(0.55%)	(0.09%)	2.28%	6.35%	17.22%	50.39%	101.54%
COMP, SHORT ACTUAL INDEX	(0.06%)	(0.72%)	(0.27%)	2.33%	6.75%	17.51%	48.61%	102.26%
COMP, ALL EQUAL INCOME INDEX	0.28%	0.85%	1.71%	3.49%	12.05%	25.55%	72.95%	134.93%
COMP, ALL ACTUAL INCOME INDEX	0.29%	0.87%	1.76%	3.59%	12.08%	23.99%	67.36%	126.22%
COMP, LONG EQUAL INCOME INDEX	0.30%	0.90%	1.82%	3.71%	12.75%	27.08%	76.58%	141.14%
COMP, LONG ACTUAL INCOME INDEX	0.30%	0.89%	1.79%	3.66%	12.33%	24.58%	68.39%	127.77%
COMP, SHORT EQUAL INCOME INDEX	0.29%	0.86%	1.72%	3.49%	11.91%	23.77%	68.96%	128.47%
COMP, SHORT ACTUAL INCOME INDEX	0.28%	0.83%	1.66%	3.34%	11.21%	21.76%	63.36%	119.48%
COMP, ALL EQUAL PRICE INDEX	0.00%	(0.09%)	(0.86%)	0.24%	(1.29%)	1.52%	1.91%	7.33%
COMP, ALL ACTUAL PRICE INDEX	0.02%	(0.05%)	(1.06%)	0.25%	(1.25%)	2.19%	2.75%	9.21%
COMP, LONG EQUAL PRICE INDEX	0.08%	0.24%	(1.03%)	0.11%	(1.81%)	1.54%	2.33%	8.40%
COMP, LONG ACTUAL PRICE INDEX	0.07%	0.25%	(1.02%)	0.16%	(1.77%)	1.77%	2.60%	9.16%
COMP, SHORT EQUAL PRICE INDEX	(0.13%)	(0.88%)	(0.96%)	0.50%	0.10%	2.34%	1.87%	5.74%
COMP, SHORT ACTUAL PRICE INDEX	(0.13%)	(1.09%)	(1.12%)	0.61%	0.74%	3.76%	3.34%	8.92%
COMP, ALL EQUAL PREPAY INDEX	(0.16%)	(0.46%)	(0.76%)	(1.17%)	(2.81%)	(3.95%)	(7.00%)	(10.29%)
COMP, ALL ACTUAL PREPAY INDEX	(0.16%)	(0.46%)	(0.76%)	(1.16%)	(2.70%)	(3.78%)	(6.51%)	(9.33%)
COMP, LONG EQUAL PREPAY INDEX	(0.17%)	(0.55%)	(0.89%)	(1.28%)	(2.86%)	(3.91%)	(6.90%)	(10.32%)
COMP, LONG ACTUAL PREPAY INDEX	(0.17%)	(0.51%)	(0.85%)	(1.22%)	(2.67%)	(3.66%)	(6.18%)	(9.02%)
COMP, SHORT EQUAL PREPAY INDEX	(0.25%)	(0.36%)	(0.50%)	(1.03%)	(3.16%)	(4.67%)	(8.50%)	(11.65%)
COMP, SHORT ACTUAL PREPAY INDEX	(0.17%)	(0.29%)	(0.45%)	(0.92%)	(2.72%)	(4.09%)	(7.78%)	(10.40%)
COMP, ALL EQUAL DEFAULT INDEX	(0.02%)	(0.06%)	(0.11%)	(0.19%)	(0.68%)	(1.30%)	(1.82%)	(2.45%)
COMP, ALL ACTUAL DEFAULT INDEX	(0.02%)	(0.07%)	(0.12%)	(0.20%)	(0.74%)	(1.43%)	(1.93%)	(2.50%)
COMP, LONG EQUAL DEFAULT INDEX	(0.02%)	(0.08%)	(0.13%)	(0.20%)	(0.71%)	(1.31%)	(1.77%)	(2.35%)
COMP, LONG ACTUAL DEFAULT INDEX	(0.02%)	(0.08%)	(0.14%)	(0.20%)	(0.74%)	(1.44%)	(1.86%)	(2.41%)
COMP, SHORT EQUAL DEFAULT INDEX	(0.02%)	(0.03%)	(0.06%)	(0.20%)	(0.74%)	(1.34%)	(2.19%)	(2.98%)
COMP, SHORT ACTUAL DEFAULT INDEX	(0.02%)	(0.03%)	(0.07%)	(0.18%)	(0.70%)	(1.29%)	(2.11%)	(2.82%)
COMP, ALL EQUAL VOL PREPAY INDEX	(0.14%)	(0.40%)	(0.65%)	(0.98%)	(2.14%)	(2.68%)	(5.28%)	(8.04%)
COMP, ALL ACTUAL VOL PREPAY INDEX	(0.14%)	(0.39%)	(0.64%)	(0.96%)	(1.97%)	(2.38%)	(4.67%)	(7.01%)
COMP, LONG EQUAL VOL PREPAY INDEX	(0.15%)	(0.47%)	(0.76%)	(1.09%)	(2.17%)	(2.63%)	(5.22%)	(8.16%)
COMP, LONG ACTUAL VOL PREPAY INDEX	(0.14%)	(0.43%)	(0.71%)	(1.02%)	(1.94%)	(2.25%)	(4.40%)	(6.78%)
COMP, SHORT EQUAL VOL PREPAY INDEX	(0.23%)	(0.33%)	(0.44%)	(0.83%)	(2.44%)	(3.37%)	(6.45%)	(8.93%)
COMP, SHORT ACTUAL VOL PREPAY INDEX	(0.15%)	(0.26%)	(0.39%)	(0.74%)	(2.04%)	(2.84%)	(5.78%)	(7.80%)
COMP, ALL EQUAL SCHED PRIN INDEX	(0.05%)	(0.20%)	(0.36%)	(0.56%)	(1.53%)	(2.25%)	(2.84%)	(3.78%)
COMP, ALL ACTUAL SCHED PRIN INDEX	(0.06%)	(0.21%)	(0.35%)	(0.53%)	(1.44%)	(2.05%)	(2.59%)	(3.33%)
COMP, LONG EQUAL SCHED PRIN INDEX	(0.08%)	(0.25%)	(0.40%)	(0.55%)	(1.37%)	(1.94%)	(2.43%)	(3.30%)
COMP, LONG ACTUAL SCHED PRIN INDEX	(0.07%)	(0.22%)	(0.35%)	(0.49%)	(1.24%)	(1.73%)	(2.06%)	(2.75%)
COMP, SHORT EQUAL SCHED PRIN INDEX	(0.05%)	(0.16%)	(0.32%)	(0.64%)	(1.96%)	(2.93%)	(4.51%)	(5.57%)
COMP, SHORT ACTUAL SCHED PRIN INDEX	(0.05%)	(0.16%)	(0.33%)	(0.67%)	(2.04%)	(3.02%)	(4.54%)	(5.57%)
COMP, ALL EQUAL TOTAL PRIN INDEX	(0.22%)	(0.66%)	(1.12%)	(1.72%)	(4.29%)	(6.10%)	(9.64%)	(13.68%)
COMP, ALL ACTUAL TOTAL PRIN INDEX	(0.23%)	(0.67%)	(1.11%)	(1.69%)	(4.11%)	(5.76%)	(8.93%)	(12.35%)
COMP, LONG EQUAL TOTAL PRIN INDEX	(0.25%)	(0.80%)	(1.29%)	(1.83%)	(4.20%)	(5.78%)	(9.16%)	(13.28%)
COMP, LONG ACTUAL TOTAL PRIN INDEX	(0.23%)	(0.73%)	(1.20%)	(1.70%)	(3.88%)	(5.33%)	(8.12%)	(11.53%)
COMP, SHORT EQUAL TOTAL PRIN INDEX	(0.30%)	(0.52%)	(0.82%)	(1.66%)	(5.06%)	(7.46%)	(12.63%)	(16.57%)
COMP, SHORT ACTUAL TOTAL PRIN INDEX	(0.22%)	(0.46%)	(0.78%)	(1.58%)	(4.71%)	(6.99%)	(11.97%)	(15.39%)



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## DEBENTURE SPEEDS: 20s HIGHER

This month, 20 year debenture prepayment speeds increased by 3% to CPR 7.54% from 7.29%, remaining below 8% for the second month in a row.

For October, 20 year defaults decreased by 19% (CDR 1.01% versus CDR 1.25%) and voluntary prepayments rose by 8% (CRR 6.56% versus CRR 6.08%). While the percentage decrease in the CDR was greater than the rise in the CRR, the nominal decrease was small, due to the near-1% starting point for the default element, thus increasing the CPR.

As for 10 year debentures, this is an "off" month so we will have to wait until next month for an update.

While we saw a small increase this month, debenture speeds continue to remain below 8% as we near the end of the year.

*Data and Charts begin on the next page*



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## 504 DCPC PREPAY SPEEDS - LAST 5 YEARS

DATE	20 YR. CPR	20 YR. CRR	20 YR. CDR	10 YR. CPR	10 YR. CRR	10 YR. CDR	ALL CPR	ALL CRR	ALL CDR
11/1/2009	7.50%	2.17%	5.39%	5.42%	1.75%	3.70%	7.43%	2.16%	5.33%
12/1/2009	7.47%	1.99%	5.53%	NA	NA	NA	7.47%	1.99%	5.53%
1/1/2010	8.75%	2.10%	6.72%	12.54%	2.38%	10.29%	8.89%	2.11%	6.85%
2/1/2010	8.89%	2.06%	6.91%	NA	NA	NA	8.89%	2.06%	6.91%
3/1/2010	8.29%	2.25%	6.11%	7.24%	2.91%	4.39%	8.26%	2.28%	6.05%
4/1/2010	9.81%	2.16%	7.74%	NA	NA	NA	9.81%	2.16%	7.74%
5/1/2010	8.88%	1.57%	7.37%	5.00%	0.86%	4.16%	8.75%	1.55%	7.26%
6/1/2010	9.47%	1.85%	7.69%	NA	NA	NA	9.47%	1.85%	7.69%
7/1/2010	8.34%	1.59%	6.81%	9.75%	2.88%	6.97%	8.39%	1.64%	6.82%
8/1/2010	8.13%	1.42%	6.76%	NA	NA	NA	8.13%	1.42%	6.76%
9/1/2010	8.40%	2.23%	6.24%	10.61%	3.40%	7.34%	8.48%	2.28%	6.28%
10/1/2010	7.78%	1.96%	5.88%	NA	NA	NA	7.78%	1.96%	5.88%
11/1/2010	8.67%	2.45%	6.30%	13.41%	6.19%	7.46%	8.83%	2.58%	6.34%
12/1/2010	8.55%	2.62%	6.00%	NA	NA	NA	8.55%	2.62%	6.00%
1/1/2011	9.69%	3.12%	6.68%	8.75%	3.77%	5.07%	9.65%	3.14%	6.62%
2/1/2011	8.02%	3.16%	4.94%	NA	NA	NA	8.02%	3.16%	4.94%
3/1/2011	8.72%	2.79%	6.02%	10.58%	5.55%	5.18%	8.79%	2.90%	5.98%
4/1/2011	8.67%	2.89%	5.87%	NA	NA	NA	8.67%	2.89%	5.87%
5/1/2011	9.52%	3.39%	6.24%	17.57%	10.28%	7.70%	9.83%	3.66%	6.29%
6/1/2011	8.76%	3.67%	5.19%	NA	NA	NA	8.76%	3.67%	5.19%
7/1/2011	7.92%	2.89%	5.11%	9.70%	3.03%	6.77%	7.99%	2.89%	5.17%
8/1/2011	7.48%	3.33%	4.22%	NA	NA	NA	7.48%	3.33%	4.22%
9/1/2011	6.82%	2.78%	4.11%	12.26%	4.57%	7.87%	7.05%	2.85%	4.26%
10/1/2011	7.85%	3.53%	4.40%	NA	NA	NA	7.85%	3.53%	4.40%
11/1/2011	7.80%	3.55%	4.33%	3.07%	1.89%	1.19%	7.61%	3.48%	4.21%
12/1/2011	7.42%	3.52%	3.97%	NA	NA	NA	7.42%	3.52%	3.97%
1/1/2012	7.74%	3.51%	4.31%	8.37%	4.17%	4.29%	7.77%	3.54%	4.31%
2/1/2012	7.16%	3.98%	3.24%	NA	NA	NA	7.16%	3.98%	3.24%
3/1/2012	8.15%	4.27%	3.97%	10.74%	7.16%	3.72%	8.26%	4.39%	3.96%
4/1/2012	7.94%	4.21%	3.82%	NA	NA	NA	7.94%	4.21%	3.82%
5/1/2012	8.42%	5.00%	3.50%	4.98%	4.06%	0.94%	8.27%	4.96%	3.40%
6/1/2012	8.13%	4.16%	4.05%	NA	NA	NA	8.13%	4.16%	4.05%
7/1/2012	7.76%	4.87%	2.97%	14.16%	11.42%	2.91%	8.03%	5.14%	2.97%
8/1/2012	8.31%	5.24%	3.15%	NA	NA	NA	8.31%	5.24%	3.15%
9/1/2012	6.94%	4.65%	2.35%	7.36%	5.23%	2.18%	6.96%	4.68%	2.34%
10/1/2012	8.64%	5.97%	2.76%	NA	NA	NA	8.64%	5.97%	2.76%
11/1/2012	8.44%	5.56%	2.97%	7.83%	6.30%	1.59%	8.42%	5.59%	2.91%
12/1/2012	8.58%	5.59%	3.08%	NA	NA	NA	8.58%	5.59%	3.08%
1/1/2013	7.81%	5.68%	2.19%	9.97%	8.88%	1.13%	7.90%	5.82%	2.14%
2/1/2013	8.05%	6.68%	1.42%	NA	NA	NA	8.05%	6.68%	1.42%
3/1/2013	8.17%	5.96%	2.28%	5.94%	4.90%	1.07%	8.07%	5.91%	2.23%
4/1/2013	8.62%	6.51%	2.18%	NA	NA	NA	8.62%	6.51%	2.18%
5/1/2013	8.92%	6.85%	2.14%	5.61%	3.80%	1.84%	8.75%	6.70%	2.13%
6/1/2013	9.94%	7.58%	2.46%	NA	NA	NA	9.94%	7.58%	2.46%
7/1/2013	9.07%	6.89%	2.26%	5.08%	3.84%	1.26%	8.90%	6.75%	2.22%
8/1/2013	8.83%	7.03%	1.87%	NA	NA	NA	8.83%	7.03%	1.87%
9/1/2013	7.94%	6.27%	1.72%	9.05%	7.11%	2.01%	8.00%	6.31%	1.74%
10/1/2013	9.66%	7.75%	1.98%	NA	NA	NA	9.66%	7.75%	1.98%
11/1/2013	9.37%	7.98%	1.44%	7.28%	6.48%	0.83%	9.26%	7.90%	1.41%
12/1/2013	9.64%	8.32%	1.38%	NA	NA	NA	9.64%	8.32%	1.38%
1/1/2014	9.54%	8.24%	1.36%	3.36%	2.59%	0.78%	9.26%	7.98%	1.34%
2/1/2014	8.24%	7.28%	0.99%	NA	NA	NA	8.24%	7.28%	0.99%
3/1/2014	7.24%	6.00%	1.28%	7.88%	6.73%	1.19%	7.27%	6.04%	1.28%
4/1/2014	7.06%	6.20%	0.89%	NA	NA	NA	7.06%	6.20%	0.89%
5/1/2014	7.59%	6.20%	1.44%	7.01%	3.31%	3.77%	7.56%	6.05%	1.56%
6/1/2014	8.00%	6.80%	1.25%	NA	NA	NA	8.00%	6.80%	1.25%
7/1/2014	7.74%	6.19%	1.60%	10.43%	8.94%	1.55%	7.86%	6.32%	1.59%
8/1/2014	8.06%	7.11%	0.99%	NA	NA	NA	8.06%	7.11%	0.99%
9/1/2014	7.29%	6.08%	1.25%	4.81%	4.14%	0.69%	7.17%	5.99%	1.22%
10/1/2014	7.54%	6.56%	1.01%	NA	NA	NA	7.54%	6.56%	1.01%

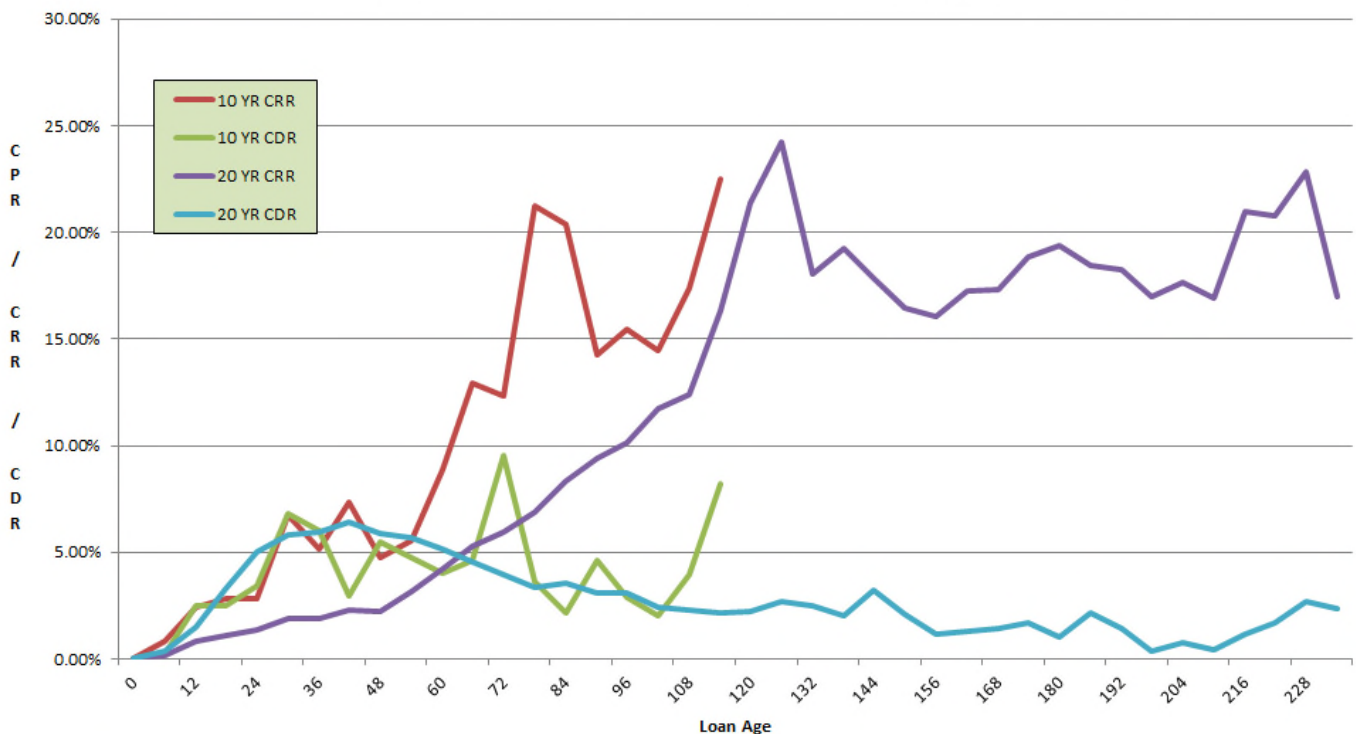
504 DCPC Prepayment Speeds by 10 year, 20 year and All. Source: BONY



### 504 DCPC Prepayment Speeds by Month - Last 5 Years



### 504 DCPC Prepayment Speeds by Loan Age - Last 5 Years



## GLS 7(a) Settlement & Sales Strategies WWRD?...

**WWRD (What would Ralphie do?)** Everyone has surely seen *A Christmas Story* and this being our report for December, it seems only fitting to include such an iconic figure as Ralphie in our settlement tips. While Christmas ended well for Ralphie, he narrowly dodged catastrophe when he wound up at the end of the line to see Santa at the department store. So what does that have to do with selling loans? Not much other than it's a great allegory for what can happen to those who wind up at the back of the line to sell loans in front of Christmas and year end. Premiums and liquidity almost always decline and sometimes, sales even are timed such that they don't make the year-end cutoff. The moral? Don't be the Ralphie of loan sales this holiday season. Get to the front of the line by selling loans early in the month and avoid the Christmas rush! FYI, December 18th should be the last day to sell and still get year end settlement but as we have seen recently, there can be unforeseen problems that can cause settlement delays, best to stay well in front of all of that.

*Scott Evans is a partner at GLS. Mr. Evans has over 25 years of trading experience and has been involved in the SBA secondary markets for the last eight of those years. Mr. Evans has bought, sold, settled, and securitized nearly 20,000 SBA loans and now brings some of that expertise to the CPR Report in a recurring article called **Sale and Settlement Tip of the Month**. The article will focus on pragmatic tips aimed at helping lenders develop a more consistent sale and settlement process and ultimately deliver them the best execution possible.*



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valuation of SBA and USDA assets.**

### **GLS provides valuations for:**

- **SBA 7(a), 504 1st mortgage and USDA servicing rights**
- **SBA 7(a) and 504 1st mortgage pools**
- **Guaranteed and non-guaranteed 7(a) loan portions Interest-only portions of SBA and USDA loans**

**In these times of market uncertainty, let GLS help you in determining the value of your SBA and USDA related-assets.**

**For further information, please contact Bob Judge at (216) 456-2480 ext. 133 or at [bob.judge@gl solutions.us](mailto:bob.judge@gl solutions.us)**

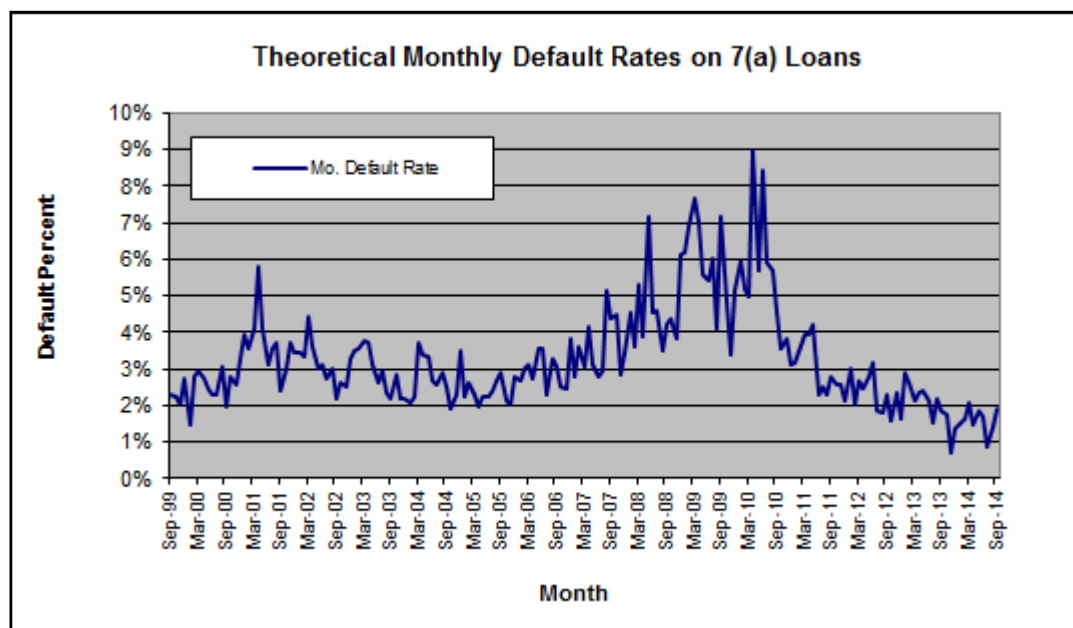
## DEFAULT RATE RISES

In September, the theoretical default rate rose by 37% to 1.92% from the fourth lowest reading since 1999 of 1.40%.

This level is the 22nd lowest one in our database, which goes back to 1999, and the sixth sub-2% reading in a row.

Based on preliminary data, I would expect next month to continue the string of sub-2% readings as we near the end of 2014.

*For further information on the terminology and concepts used in this article, please refer to the "Glossary and Definitions" at the end of the report.*



**"Spectacular achievement is always preceded by unspectacular preparation."**

Robert H. Schuller

**SBLA. COME PREPARED.**

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## DEFAULT-CURTAILMENT RATIOS

In our Default-Curtailment Ratios (DCR) we witnessed an increase in both the 7a ratio and the 504 one last month.

Please note that an increase in the DCR does not necessarily mean that the default rate is rising, only that the percentage of early curtailments attributable to defaults has increased.

### SBA 7(a) Default Ratios

Last month, the 7(a) DCR registered a 43% increase to 23.57% from 16.48% in August. This represents the first visit above 20% since May of this year.

The cause of the increase was the fact that defaults rose and voluntary prepayments fell.

Turning to actual dollar amounts, defaults rose by 45% to \$71 million from \$49 million. As for voluntary prepayments, they decreased by 7% to \$232 million versus \$250 million.

### SBA 504 Default Ratios

This month, the 504 DCR rose by 40% to 16.06% from 11.53% previously. With defaults rising and voluntary prepayments moving lower, the ratio increased.

Specifically, the dollar amount of defaults increased by \$9 million to \$31 million (+42%). As for voluntary prepayments, they fell by \$6 million to \$160 million (-4%).

### Summary

While we saw increases in both ratios this month, expect lower readings as we near the end of 2014.

*For further information on the terminology and concepts used in this article, please refer to the "Glossary and Definitions" at the end of the report.*

*Graph on page 31*



## GLS VALUE INDICES MOSTLY HIGHER

In September, the GLS Value Indices again rose in four out of six sub-indices, as decreases in the secondary market took effect.

The Base Rate / Libor spread rose by 1 basis point to +3.03% and prepayment speeds rose in four out of six maturity.

By the end of September, the secondary market was 5/8 of a point lower in the long-end and down by 1/8 in the short-end. Specifically, long maturity, fully priced loans fell back to near 118 while 10-year fully-priced paper threatened to go below 114.

Turning to the specifics, the largest increase was seen in the GLS VI-5, which rose by 59% to 204 basis points. The other increases, by order of magnitude, were seen in VI-4 (+21% to 152), VI-3 (+9% to 76) and VI-1 (+5% to 46).

Decreases were seen in VI-2 (-8% to 55) and VI-6 (-4% to 143).

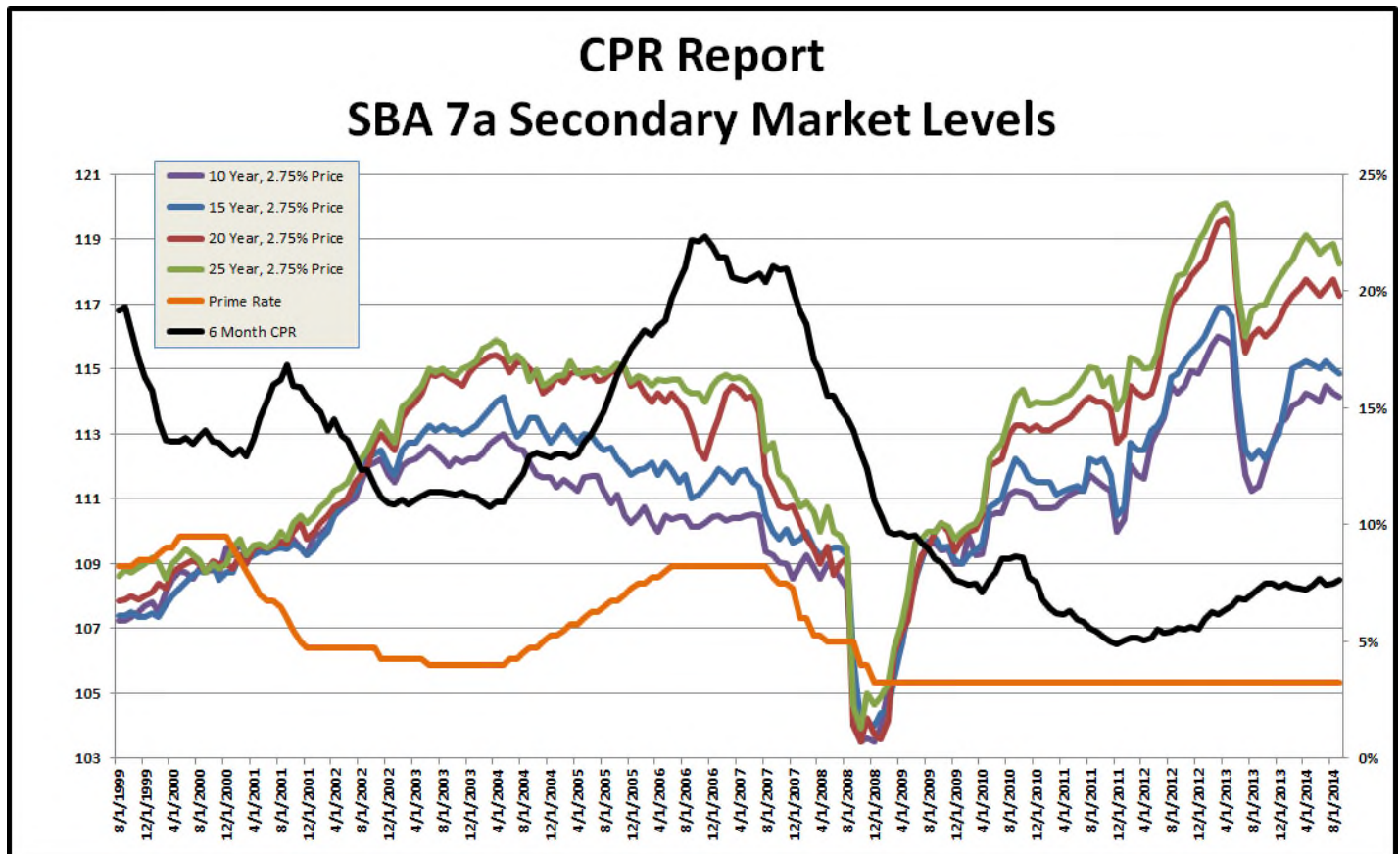
Expect to see continued decreases in the secondary market as we near the end of 2014.

*For further information on the terminology and concepts used in this article, please refer to the "Glossary and Definitions" at the end of the report.*

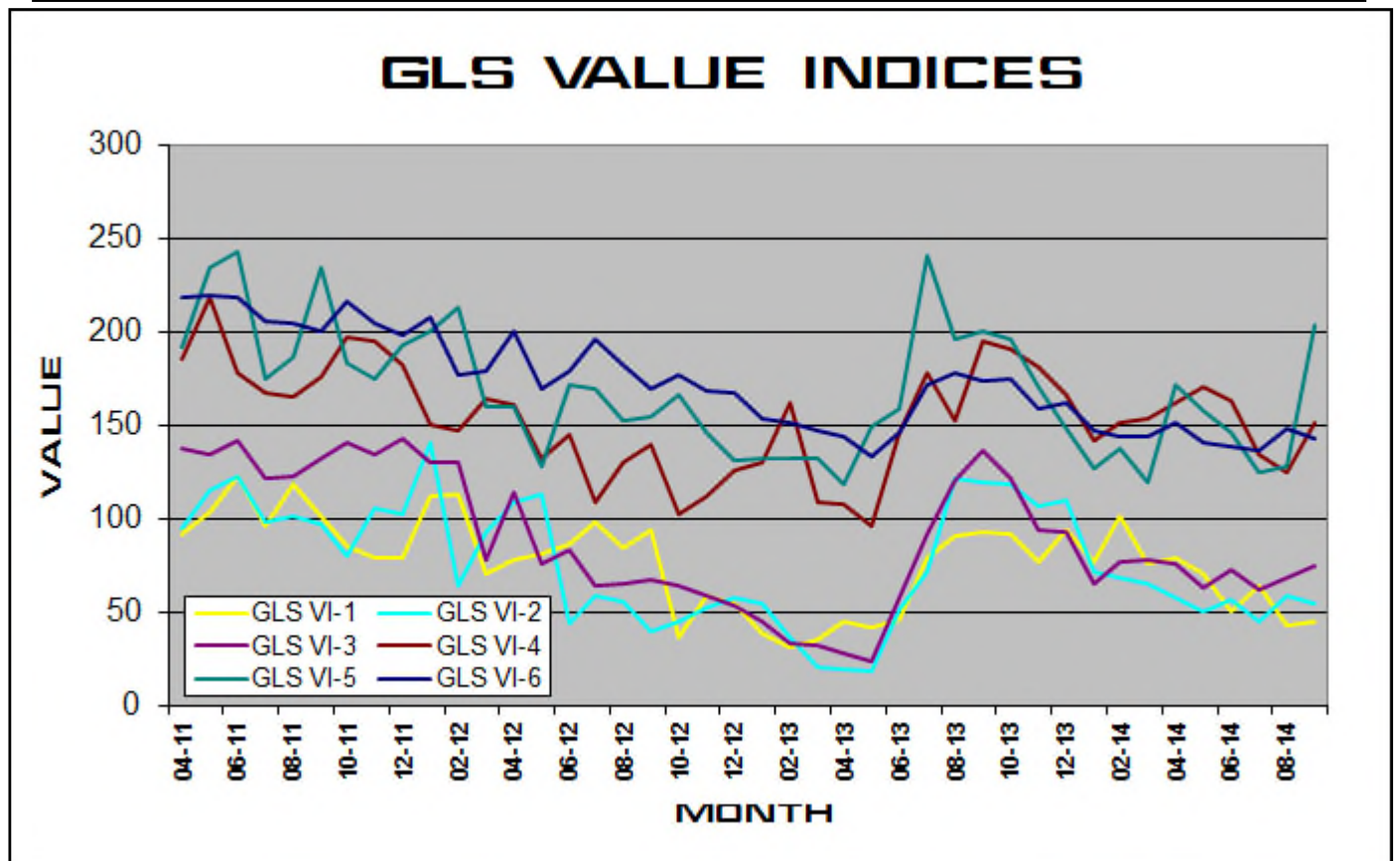
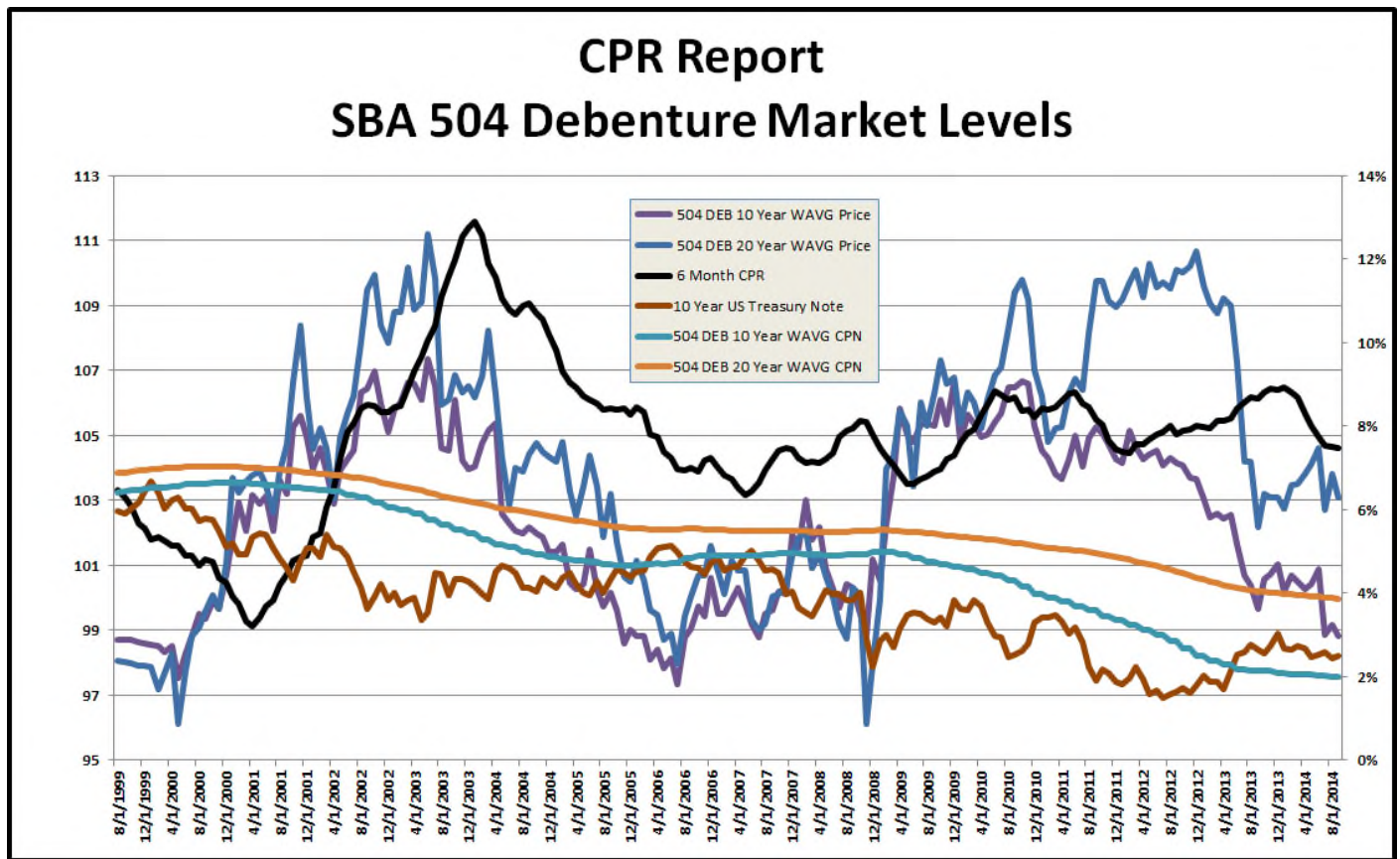
*Data & Graphs on the following pages*

### 7(a) Secondary Market Pricing Grid: September 2014

Maturity	Gross Margin	Net Margin	Servicing	This Month Price	Last Month Price	3-Mos. Ago Price	6-Mos. Ago Price	1-Yr. Ago Price
10 yrs.	2.75%	1.075%	1.00%	114.125	114.25	114.00	114.00	111.40
15 yrs.	2.75%	1.075%	1.00%	114.875	115.00	115.00	115.125	112.50
20 yrs.	2.75%	1.075%	1.00%	117.25	117.75	117.25	117.50	116.25
25 yrs.	2.75%	1.075%	1.00%	118.25	118.875	118.55	118.875	116.95



## SECONDARY MARKET AND VALUE INDICES CHARTS



# GLS VALUE INDICES: SUPPORTING DATA

Table 1:

MONTH	BUCKET 1 CPR	BUCKET 2 CPR	BUCKET 3 CPR	BUCKET 4 CPR	BUCKET 5 CPR	BUCKET 6 CPR
Apr-11	10.60%	9.69%	7.38%	6.90%	4.95%	5.17%
May-11	10.82%	9.75%	7.26%	6.11%	5.51%	5.45%
Jun-11	10.25%	9.69%	6.81%	5.39%	5.70%	5.12%
Jul-11	10.02%	9.51%	6.38%	4.94%	6.11%	5.12%
Aug-11	10.25%	8.86%	6.16%	5.14%	6.04%	4.88%
Sep-11	10.23%	9.18%	6.13%	5.00%	5.15%	4.69%
Oct-11	10.29%	8.59%	5.53%	4.77%	5.77%	4.57%
Nov-11	9.94%	8.22%	5.59%	4.85%	5.75%	4.20%
Dec-11	9.74%	7.83%	5.62%	4.78%	5.59%	4.12%
Jan-12	9.00%	8.29%	6.20%	5.23%	5.04%	4.15%
Feb-12	9.17%	9.19%	6.18%	5.11%	4.64%	4.35%
Mar-12	8.53%	8.57%	6.34%	5.16%	5.14%	4.30%
Apr-12	8.52%	8.55%	6.18%	5.46%	4.65%	4.20%
May-12	10.19%	8.24%	6.31%	6.03%	4.86%	4.28%
Jun-12	10.42%	9.19%	6.72%	6.54%	4.93%	4.58%
Jul-12	10.78%	8.90%	6.50%	6.63%	5.55%	4.40%
Aug-12	11.30%	8.23%	6.67%	7.18%	5.97%	4.40%
Sep-12	12.35%	8.72%	6.85%	6.90%	6.46%	4.44%
Oct-12	11.44%	8.16%	7.16%	6.52%	6.34%	4.40%
Nov-12	11.31%	8.21%	7.15%	6.16%	6.19%	4.62%
Dec-12	10.87%	7.49%	7.26%	5.99%	5.74%	4.49%
Jan-13	10.83%	7.82%	7.82%	5.83%	6.36%	4.90%
Feb-13	10.54%	7.81%	8.55%	5.20%	6.47%	5.17%
Mar-13	9.73%	7.46%	8.01%	5.81%	6.54%	5.28%
Apr-13	10.37%	8.50%	8.08%	5.90%	6.50%	5.52%
May-13	8.84%	9.12%	8.56%	5.97%	6.42%	5.57%
Jun-13	9.66%	10.04%	8.76%	6.24%	7.14%	5.93%
Jul-13	11.26%	9.24%	8.76%	5.75%	6.87%	5.84%
Aug-13	11.45%	9.23%	8.70%	5.97%	7.97%	6.14%
Sep-13	11.88%	10.04%	9.00%	5.90%	8.14%	6.33%
Oct-13	11.43%	9.26%	9.19%	6.49%	8.53%	6.58%
Nov-13	11.70%	8.32%	8.70%	6.10%	8.35%	6.91%
Dec-13	10.83%	7.39%	8.48%	5.75%	8.88%	6.75%
Jan-14	9.77%	8.30%	8.51%	5.62%	8.64%	6.98%
Feb-14	10.84%	8.57%	8.24%	5.10%	7.64%	6.96%
Mar-14	10.19%	8.05%	8.28%	4.93%	6.69%	6.98%
Apr-14	10.81%	8.22%	8.09%	5.16%	6.23%	6.93%
May-14	11.52%	9.21%	8.40%	5.02%	6.34%	7.06%
Jun-14	12.95%	10.45%	8.36%	5.03%	6.26%	7.41%
Jul-14	13.85%	9.91%	8.15%	6.30%	5.80%	7.12%
Aug-14	12.76%	9.40%	8.22%	6.19%	5.52%	7.19%
Sep-14	13.97%	9.08%	8.22%	5.90%	6.12%	7.42%

Rolling six-month CPR speeds for all maturity buckets. Source: Colson Services



# GLS VALUE INDICES: HISTORICAL VALUES

Table 2:

MONTH	WAVG LIBOR	WAVG BASE	BASE LIBOR SPD	GLS VI-1	GLS VI-2	GLS VI-3	GLS VI-4	GLS VI-5	GLS VI-6
Apr-11	0.27%	3.25%	2.98%	92.5	95.9	137.6	186.2	192.5	218.8
May-11	0.24%	3.25%	3.01%	104.3	116.1	134.3	219.2	235.1	220.2
Jun-11	0.23%	3.24%	3.01%	123.1	123.0	141.8	178.1	243.7	218.4
Jul-11	0.24%	3.25%	3.01%	96.8	98.4	121.7	167.9	175.4	206.5
Aug-11	0.27%	3.24%	2.97%	118.6	101.5	122.8	165.8	186.4	205.3
Sep-11	0.32%	3.25%	2.93%	101.6	98.0	132.7	176.2	234.9	200.5
Oct-11	0.34%	3.24%	2.90%	85.5	80.8	141.1	197.4	183.4	216.3
Nov-11	0.41%	3.25%	2.84%	79.1	106.3	134.9	195.8	175.2	204.9
Dec-11	0.50%	3.25%	2.75%	79.6	103.0	143.8	182.6	193.6	198.5
Jan-12	0.44%	3.25%	2.81%	112.1	141.1	130.7	151.0	201.1	208.5
Feb-12	0.41%	3.25%	2.84%	113.5	65.0	130.5	148.1	214.0	177.6
Mar-12	0.44%	3.25%	2.81%	71.5	93.3	78.5	164.3	160.2	179.3
Apr-12	0.42%	3.25%	2.83%	78.7	109.6	114.6	161.0	160.2	200.8
May-12	0.43%	3.24%	2.81%	81.3	113.4	76.4	132.5	128.0	169.8
Jun-12	0.41%	3.23%	2.83%	87.1	44.0	83.7	145.5	172.0	179.8
Jul-12	0.39%	3.25%	2.86%	98.4	59.0	65.0	109.0	169.6	196.7
Aug-12	0.36%	3.25%	2.89%	85.4	56.2	65.8	130.4	152.5	182.2
Sep-12	0.33%	3.25%	2.91%	93.9	40.0	68.1	140.7	155.1	169.7
Oct-12	0.30%	3.25%	2.95%	37.4	46.0	64.8	102.8	166.5	177.2
Nov-12	0.29%	3.25%	2.95%	59.8	53.4	59.1	112.8	146.0	168.4
Dec-12	0.29%	3.25%	2.96%	55.0	58.2	54.5	126.4	131.2	167.6
Jan-13	0.28%	3.25%	2.97%	39.6	55.4	45.9	130.4	133.1	154.3
Feb-13	0.26%	3.24%	2.98%	31.5	36.6	34.1	162.7	133.1	152.2
Mar-13	0.26%	3.25%	2.99%	36.3	21.0	32.7	108.8	132.7	147.7
Apr-13	0.26%	3.25%	2.99%	45.3	20.5	29.0	107.8	118.9	144.9
May-13	0.26%	3.25%	2.99%	42.6	19.4	24.4	96.7	149.8	133.8
Jun-13	0.26%	3.25%	2.99%	46.2	51.6	58.2	146.9	158.9	146.5
Jul-13	0.25%	3.25%	2.99%	79.9	72.5	92.0	178.4	241.1	172.5
Aug-13	0.25%	3.25%	3.00%	91.2	122.1	120.5	152.7	196.6	178.0
Sep-13	0.23%	3.24%	3.00%	92.9	119.7	137.1	195.8	200.3	173.7
Oct-13	0.23%	3.25%	3.02%	91.9	119.3	121.7	191.1	197.0	175.2
Nov-13	0.23%	3.25%	3.02%	77.0	107.5	94.2	182.1	170.8	159.2
Dec-13	0.23%	3.25%	3.02%	94.9	110.1	93.9	166.2	149.1	162.4
Jan-14	0.23%	3.25%	3.02%	77.5	71.6	65.8	142.2	127.0	147.5
Feb-14	0.23%	3.25%	3.02%	101.7	69.0	77.3	151.9	138.5	144.6
Mar-14	0.22%	3.25%	3.03%	75.9	65.7	78.5	154.1	120.1	144.1
Apr-14	0.22%	3.25%	3.03%	79.3	58.6	76.3	162.3	172.2	151.5
May-14	0.22%	3.25%	3.03%	70.8	51.2	63.3	170.9	158.6	141.7
Jun-14	0.22%	3.25%	3.03%	50.8	56.9	73.4	163.4	146.7	138.8
Jul-14	0.23%	3.25%	3.02%	64.4	45.2	62.9	135.2	125.0	136.8
Aug-14	0.23%	3.25%	3.02%	43.6	59.9	69.3	125.1	128.0	149.2
Sep-14	0.22%	3.25%	3.03%	45.8	55.1	75.7	151.7	204.0	143.3

INDICES LEGEND	
	HIGHEST READING
	LOWEST READING

GLS VI values for all maturity buckets for last 42 months.

## YTD PREPAYMENT SPEEDS

CPR/MO.	<8	8 - 10	10 - 13	13 - 16	16 - 20	20+	ALL
Jan-14	14.36%	11.74%	9.87%	2.59%	7.28%	7.43%	8.09%
Feb-14	17.60%	8.73%	8.55%	4.18%	6.98%	7.91%	8.10%
Mar-14	6.32%	8.15%	8.10%	5.52%	4.54%	6.37%	6.70%
Apr-14	11.09%	7.26%	7.26%	9.44%	3.63%	6.42%	6.65%
May-14	13.21%	12.28%	8.45%	3.09%	5.52%	8.48%	8.38%
Jun-14	14.99%	14.34%	7.96%	5.41%	9.54%	7.82%	8.19%
Jul-14	19.78%	8.46%	8.53%	10.11%	4.51%	5.70%	6.72%
Aug-14	10.96%	5.60%	8.95%	3.45%	5.33%	8.29%	8.14%
Sep-14	13.48%	6.20%	8.14%	3.67%	8.07%	7.75%	7.79%
Grand Total	13.57%	9.24%	8.42%	5.29%	6.17%	7.36%	7.64%

2014 monthly prepayment speeds broken out by maturity sector. Source: Colson Services

POOL AGE	<8	8 - 10	10 - 13	13 - 16	16 - 20	20+	ALL
Jan-14	29 Mos.	39 Mos.	38 Mos.	66 Mos.	52 Mos.	49 Mos.	46 Mos.
Feb-14	30 Mos.	38 Mos.	38 Mos.	66 Mos.	53 Mos.	49 Mos.	46 Mos.
Mar-14	28 Mos.	38 Mos.	38 Mos.	66 Mos.	53 Mos.	49 Mos.	46 Mos.
Apr-14	29 Mos.	37 Mos.	37 Mos.	66 Mos.	53 Mos.	49 Mos.	46 Mos.
May-14	29 Mos.	38 Mos.	37 Mos.	62 Mos.	54 Mos.	49 Mos.	46 Mos.
Jun-14	29 Mos.	37 Mos.	37 Mos.	62 Mos.	54 Mos.	49 Mos.	46 Mos.
Jul-14	29 Mos.	37 Mos.	37 Mos.	63 Mos.	54 Mos.	49 Mos.	46 Mos.
Aug-14	30 Mos.	37 Mos.	36 Mos.	63 Mos.	53 Mos.	49 Mos.	46 Mos.
Sep-14	30 Mos.	37 Mos.	36 Mos.	63 Mos.	54 Mos.	49 Mos.	46 Mos.

2014 pool age broken out by maturity sector. Source: Colson Services

## YEAR-TO-DATE CPR DATA

< 8 BY AGE	0-12 Mos.	13-24 Mos.	25-36 Mos.	37-48 Mos.	48+ Mos.
Jan-14	3.35%	39.24%	4.19%	3.05%	8.33%
Feb-14	1.93%	36.55%	8.77%	21.73%	11.90%
Mar-14	2.84%	3.92%	4.46%	11.47%	11.55%
Apr-14	11.09%	16.64%	4.37%	13.92%	5.52%
May-14	13.45%	13.09%	9.87%	13.55%	15.76%
Jun-14	6.19%	8.64%	33.62%	15.60%	14.12%
Jul-14	23.53%	34.96%	6.10%	13.77%	10.35%
Aug-14	3.23%	21.07%	7.77%	7.84%	9.05%
Sep-14	5.48%	15.85%	23.61%	11.25%	9.65%
Grand Total	8.21%	21.75%	11.91%	12.66%	10.79%

10-13 BY AGE	0-12 Mos.	13-24 Mos.	25-36 Mos.	37-48 Mos.	48+ Mos.
Jan-14	7.68%	12.00%	14.74%	12.22%	6.80%
Feb-14	4.46%	13.81%	10.94%	9.83%	6.70%
Mar-14	6.79%	15.14%	6.74%	7.08%	5.55%
Apr-14	2.63%	13.52%	7.04%	7.26%	7.05%
May-14	2.99%	4.91%	18.51%	15.00%	6.43%
Jun-14	5.21%	9.32%	10.49%	9.93%	7.27%
Jul-14	2.67%	13.57%	11.50%	7.73%	8.72%
Aug-14	2.70%	15.45%	15.61%	10.54%	6.37%
Sep-14	5.15%	7.06%	16.36%	5.90%	8.27%
Grand Total	4.42%	11.68%	12.50%	9.50%	7.02%

16-20 BY AGE	0-12 Mos.	13-24 Mos.	25-36 Mos.	37-48 Mos.	48+ Mos.
Jan-14	8.27%	6.67%	5.40%	15.31%	6.23%
Feb-14	3.98%	3.58%	4.49%	28.09%	6.09%
Mar-14	0.00%	0.00%	7.25%	3.69%	6.54%
Apr-14	0.00%	4.17%	9.24%	0.00%	3.50%
May-14	0.00%	8.80%	13.92%	5.39%	3.33%
Jun-14	27.94%	2.58%	29.18%	0.37%	3.39%
Jul-14	4.89%	5.01%	6.69%	10.39%	2.02%
Aug-14	6.69%	2.59%	7.31%	4.54%	5.34%
Sep-14	17.91%	6.38%	3.84%	20.40%	1.35%
Grand Total	8.20%	4.35%	9.53%	9.76%	4.21%

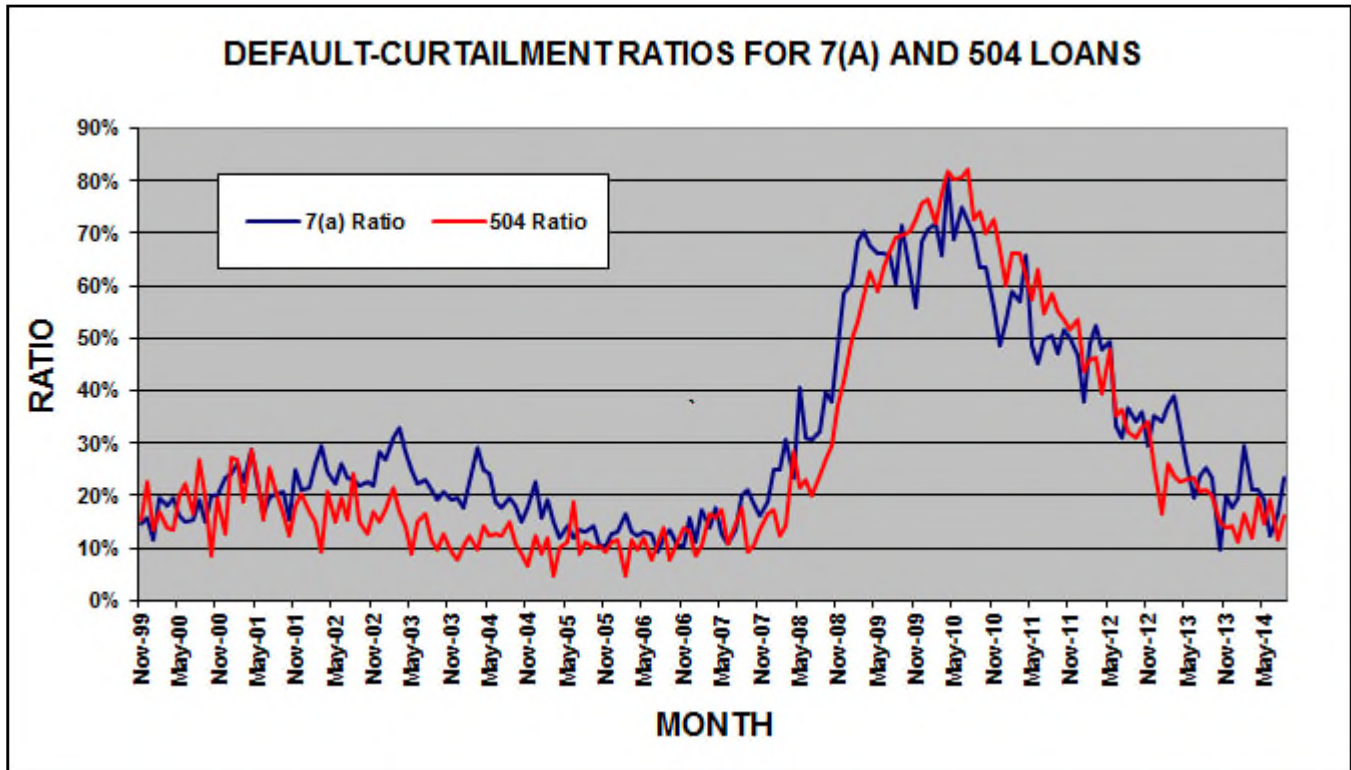
## YEAR-TO-DATE CPR DATA

8-10 BY AGE	0-12 Mos.	13-24 Mos.	25-36 Mos.	37-48 Mos.	48+ Mos.
Jan-14	22.46%	14.60%	9.45%	8.03%	6.83%
Feb-14	7.34%	5.75%	16.06%	13.79%	7.21%
Mar-14	3.75%	15.91%	7.25%	15.57%	4.31%
Apr-14	4.42%	10.36%	13.10%	2.72%	7.71%
May-14	11.19%	22.70%	8.93%	5.08%	11.49%
Jun-14	1.25%	25.70%	21.44%	22.74%	12.34%
Jul-14	9.52%	13.05%	6.96%	8.33%	6.73%
Aug-14	3.81%	10.25%	2.45%	8.82%	5.76%
Sep-14	6.37%	2.77%	4.62%	7.13%	7.62%
Grand Total	7.52%	14.04%	9.46%	10.51%	7.81%

13-16 BY AGE	0-12 Mos.	13-24 Mos.	25-36 Mos.	37-48 Mos.	48+ Mos.
Jan-14	0.00%	0.00%	0.00%	0.00%	4.62%
Feb-14	2.83%	0.00%	0.00%	18.21%	3.90%
Mar-14	5.20%	0.00%	0.00%	11.83%	6.84%
Apr-14	0.00%	0.00%	17.95%	51.84%	4.26%
May-14	0.00%	0.00%	0.00%	12.71%	3.76%
Jun-14	0.00%	14.02%	4.68%	10.10%	4.41%
Jul-14	36.70%	0.05%	19.13%	1.29%	3.63%
Aug-14	0.00%	0.00%	10.48%	8.64%	3.00%
Sep-14	0.00%	0.00%	15.36%	4.15%	3.52%
Grand Total	5.43%	1.81%	7.22%	13.33%	4.25%

20+ BY AGE	0-12 Mos.	13-24 Mos.	25-36 Mos.	37-48 Mos.	48+ Mos.
Jan-14	5.19%	9.18%	10.36%	8.69%	6.32%
Feb-14	4.91%	7.37%	13.19%	13.15%	6.30%
Mar-14	2.25%	4.60%	10.73%	16.64%	5.03%
Apr-14	0.75%	9.08%	8.77%	11.28%	5.90%
May-14	3.68%	6.98%	19.11%	15.73%	5.49%
Jun-14	1.88%	8.46%	17.43%	12.20%	5.86%
Jul-14	3.98%	3.83%	6.54%	10.23%	5.88%
Aug-14	4.46%	10.61%	13.25%	13.20%	6.32%
Sep-14	2.33%	9.23%	13.92%	13.05%	6.37%
Grand Total	3.28%	7.71%	12.65%	12.72%	5.94%





# GLS

GOVERNMENT LOAN SOLUTIONS

**The nationwide leader in the  
valuation of SBA and USDA assets.**

## **GLS provides valuations for:**

- **SBA 7(a), 504 1st mortgage and USDA servicing rights**
- **SBA 7(a) and 504 1st mortgage pools**
- **Guaranteed and non-guaranteed 7(a) loan portions Interest-only portions of SBA and USDA loans**

**In these times of market uncertainty, let GLS help you in determining the value of your SBA and USDA related-assets.**

For further information, please contact Bob Judge at (216) 456-2480 ext. 133 or at [bob.judge@glsolutions.us](mailto:bob.judge@glsolutions.us)

## GLOSSARY AND DEFINITIONS: PAGE 1

### Default-Curtailment Ratio

The Default-Curtailment Ratio (DCR), or the percentage of secondary loan curtailments that are attributable to defaults, can be considered a measurement of the health of small business in the U.S. GLS, with default and borrower prepayment data supplied by Colson Services, has calculated DCRs for both SBA 7(a) and 504 loans since January, 2000.

The default ratio is calculated using the following formula:

$$\text{Defaults} / (\text{Defaults} + \text{Prepayments})$$

By definition, when the DCR is increasing, defaults are increasing faster than borrower prepayments, suggesting a difficult business environment for small business, perhaps even recessionary conditions. On the flip side, when the DCR is decreasing, either defaults are falling or borrower prepayments are outpacing defaults, each suggesting improving business conditions for small business.

Our research suggests that a reading of 20% or greater on 7(a) DCRs and 15% or greater on 504 DCRs suggest economic weakness in these small business borrower groups.

### Theoretical Default Rate

Due to a lack of up-to-date default data, we attempt to estimate the current default rate utilizing two datasets that we track:

1. Total prepayment data on all SBA pools going back to 2003. This is the basis for our monthly prepayment information.

Total prepayment data on all secondary market 7(a) loans going back to 1999, broken down by defaults and voluntary prepayments. This is the basis for our monthly default ratio analysis.

With these two datasets, it is possible to derive a theoretical default rate on SBA 7(a) loans. We say "theoretical" because the reader has to accept the following assumptions as true:

1. The ratio of defaults to total prepayments is approximately the same for SBA 7(a) pools and secondary market 7(a) loans.

**Fact:** 60% to 70% of all secondary market 7(a) loans are inside SBA pools.

2. The default rate for secondary market 7(a) loans closely approximates the default rate for all outstanding 7(a) loans.

**Fact:** 25% to 35% of all outstanding 7(a) loans have been sold into the secondary market.

While the above assumptions seem valid, there exists some unknown margin for error in the resulting analysis. However, that does not invalidate the potential value of the information to the SBA lender community.

#### **The Process**

To begin, we calculated total SBA pool prepayments, as a percentage of total secondary loan prepayments, using the following formula:

$$\text{Pool Prepay Percentage} = \text{Pool Prepayments} / \text{Secondary Loan Prepayments}$$

This tells us the percentage of prepayments that are coming from loans that have been pooled. Next, we calculated the theoretical default rate using the following equation:

$$((\text{Secondary Loan Defaults} * \text{Pool Prepay Percentage}) / \text{Pool Opening Balance}) * 12$$

This provides us with the theoretical default rate for SBA 7(a) loans, expressed as an annualized percentage.

### GLS Long Value Indices

Utilizing the same maturity buckets as in our CPR analysis, we calculate 6 separate indexes, denoted as GLS VI-1 to VI-6. The numbers equate to our maturity buckets in increasing order, with VI-1 as <8 years, VI-2 as 8-10 years, VI-3 as 10-13 years, VI-4 as 13-16 years, VI-5 as 16-20 years and ending with VI-6 as 20+ years.

The new Indices are basically weighted-average spreads to Libor, using the rolling six-month CPR for pools in the same maturity bucket, at the time of the transaction. While lifetime prepayment speeds would likely be lower for new loans entering the secondary market, utilizing six-month rolling pool speeds allowed us to make relative value judgments across different time periods.

We compare the bond-equivalent yields to the relevant Libor rate at the time of the transaction. We then break the transactions into the six different maturity buckets and calculate the average Libor spread, weighting them by the loan size.

For these indices, the value can be viewed as the average spread to Libor, with a higher number equating to greater value in the trading levels of SBA 7(a) loans.

## GLOSSARY AND DEFINITIONS: PAGE 2

### Prepayment Calculations

SBA Pool prepayment speeds are calculated using the industry convention of Conditional Prepayment Rate, or CPR. CPR is the annualized percentage of the outstanding balance of a pool that is expected to prepay in a given period. For example, a 10% CPR suggests that 10% of the current balance of a pool will prepay each year.

When reporting prepayment data, we break it into seven different original maturity categories: <8 years, 8-10 years, 10-13 years, 13-16 years, 16-20 years and 20+ years. Within these categories we provide monthly CPR and YTD values.

In order to get a sense as to timing of prepayments during a pool's life, we provide CPR for maturity categories broken down by five different age categories: 0-12 months, 13-24 months, 25-36 months, 37-48 months and 48+ months.

As to the causes of prepayments, we provide a graph which shows prepayment speeds broken down by voluntary borrower prepayment speeds, denoted VCPR and default prepayment speeds, denoted as DCPR. The formula for Total CPR is as follows:

$$\text{Total Pool CPR} = \text{VCPR} + \text{DCPR}$$

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### SBA Libor Base Rate

The SBA Libor Base Rate is set on the first business day of the month utilizing one-month LIBOR, as published in a national financial newspaper or website, plus 3% (300 basis points). The rate will be rounded to two digits with .004 being rounded down and .005 being rounded up.

Please note that the SBA's maximum 7(a) interest rates continue to apply to SBA base rates: Lenders may charge up to 2.25% above the base rate for maturities under seven years and up to 2.75% above the base rate for maturities of seven years or more, with rates 2% higher for loans of \$25,000 or less and 1% higher for loans between \$25,000 and \$50,000. (Allowable interest rates are slightly higher for SBAExpress loans.)

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### Risk Types

The various risk types that impact SBA pools are the following:

**Basis Risk:** The risk of unexpected movements between two indices. The impact of this type of risk was shown in the decrease in the Prime/Libor spread experienced in 2007 and 2008.

**Prepayment Risk:** The risk of principal prepayments due to borrower voluntary curtailments and defaults. Overall prepayments are expressed in CPR, or Conditional Prepayment Rate.

**Interest Rate Risk:** The risk of changes in the value of an interest-bearing asset due to movements in interest rates. For pools with monthly or quarterly adjustments, this risk is low.

**Credit Risk:** Losses experienced due to the default of collateral underlying a security. Since SBA loans and pools are guaranteed by the US government, this risk is very small.

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### Secondary Market First Lien Position 504 Loan Pool Guarantee Program

As part of the American Recovery and Reinvestment Act (AKA the Stimulus Bill), Congress authorized the SBA to create a temporary program that provides a guarantee on an eligible pool of SBA 504 first liens. The program was authorized for a period of two years from the date of bill passage – February, 2009. The eligibility of each loan is dependent on the date of the SBA Debenture funding. To be eligible, the Debenture must have been funded on or after February 17, 2009. The total guarantee allocation is \$3 Billion. HR 5297 provides for a two-year extension from the first pooling month, so that the end date of the program is now **September, 2012**.

**The SBA announced that they will begin issuing the first pool guarantees in September, 2010 for early October settlement.**

For the purposes of the program, a pool is defined as 2 or more loans. A pool must be either fixed (for life) or adjustable (any period adjustment including 5 or 10 years). If the pool is comprised of adjustable rate loans, all loans must have the same base rate (e.g. Prime, LIBOR, LIBOR Swaps, FHLB, etc.). Finally, each loan must be current for the lesser of 6 months or from the time of loan funding. Congress mandated that this be a **zero subsidy program to the SBA** (and the US taxpayer). The SBA has determined the program cost (management and expected losses) can be covered by an ongoing subsidy fee of .744% for fiscal year 2012.

## GLOSSARY AND DEFINITIONS: PAGE 3

### SBA 504 Program and Debenture Funding

To support small businesses and to strengthen the economy Congress created the U.S. Small Business Administration (SBA) in 1953 to provide a range of services to small businesses including financing. In 1958 Congress passed the Small Business Investment Act which established what is known today as the SBA 504 loan program.

The 504 loan program provides financing for major fixed assets, such as owner-occupied real estate and long-term machinery and equipment. A 504 project is funded by a loan from a bank secured with a first lien typically covering 50% of the project's cost, a loan from a CDC secured with a second lien (backed by a 100% SBA-guaranteed debenture) covering a maximum of 40% of the cost, and a contribution of at least 10% of the project cost from the small business being financed. The SBA promotes the 504 program as an economic development tool because it is a small-business financing product that generates jobs.

Each debenture is packaged with other CDC debentures into a national pool and is sold on a monthly basis to underwriters. Investors purchase interests in debenture pools and receive certificates representing ownership of all or part of a debenture pool. SBA uses various agents to facilitate the sale and service of the certificates and the orderly flow of funds among the parties involved. The debenture sales are broken into monthly sales of 20 year debentures and bi-monthly sales of 10 year debentures.

It is the performance of these debenture pools that we track in the CPR Report on a monthly basis.

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### Cloud Computing and the Banking Industry

#### **What is Cloud Computing?**

For many people and organizations, the term "cloud computing" is new and unfamiliar. However, it is a technology that has been used consistently since the 1950s. Many of us use cloud computing every day without even realizing it. Whenever we login to Facebook, send an email from a Gmail account, or use an enterprise planning systems, such as Oracle and Salesforce.com, we are accessing the cloud.

In simple terms, cloud computing means using hardware and software resources delivered as a service over a network. Most frequently, the network used is the Internet. Cloud-based applications are accessed through a web browser such as Microsoft's Internet Explorer and Google's Chrome, while data is stored on secure servers in custom designed data centers located throughout the United States and around the world. Businesses that use cloud computing enjoy many advantages, including an ability to get services and employees up and running faster because there is no software that needs to be downloaded and installed. Maintenance of cloud computing applications is easier, because the software does not need to be installed on each user's computer and can be accessed from multiple computers and devices. Proper cloud deployment can also provide the benefits of cost savings, better IT services, less maintenance, and higher levels of reliability.

#### **Cloud Banking**

As the banking industry evolves and adapts to changes in the competitive environment, banks will find it advantageous to move their data into the cloud. In fact, many banks are already in the cloud and just don't realize it, with data stored on Jack Henry and FIS systems.

The combination of the cloud's low cost and high scalability will help improve customer service, day-to-day operations, regulatory compliance, and the speed at which banks can operate, while reducing technology equipment and management costs.

Quite simply, cloud banking allows financial institutions to provide a more affordable and customized dialogue with their customers, regulators, employees and business partners.

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### SBI Pool and IO Strip Indexes

Through a joint venture called Small Business Indexes, Inc. or SBI, GLS and Ryan ALM introduced a group of total return indexes for SBA 7a pools and I/O strips with history going back to 1/1/2000.

Why did we do this?

Indexes have been around since 1896 when the Dow Jones Industrial Average was introduced. They have grown in importance to the financial markets, whereby today \$6 trillion are invested in Index Funds throughout the world.

Continued on the following pages.



## GLOSSARY AND DEFINITIONS: PAGE 4

### SBI Pool and IO Strip Indexes...Continued

The reasons for having investment indexes are fivefold:

1. **Asset Allocation Models:** Asset Allocation usually accounts for over 90% of a client's total return and becomes the most critical asset decision. Such models use 100% index data to calculate their asset allocations. Bond index funds are the best representation of the intended risk/reward of fixed income asset classes.
2. **Transparency:** Most bond index benchmarks publish daily returns unlike active managers who publish monthly or even quarterly returns usually with a few days of delinquency. Such transparency should provide clients with more information on the risk/reward behavior of their assets so there are no surprises at quarterly asset management review meetings.
3. **Performance Measurement:** Creates a benchmark for professional money managers to track their relative performance.
4. **Dictates Risk/Reward Behavior:** By analyzing historical returns of an index, an investor can better understand how an asset class will perform over long periods of time, as well as during certain economic cycles.
5. **Hedging:** An investment index can provide a means for hedging the risk of a portfolio that is comprised of assets tracked by the index. An example would be hedging a 7a servicing portfolio using the SBI I/O Strip Index.

By creating investment indexes for SBA 7a pool and IO strips, these investments can become a recognized asset class by pension funds and other large investors who won't consider any asset class in their asset allocation models that does not have a benchmark index.

An additional use for the I/O index could be to allow 7a lenders to hedge servicing portfolios that are getting large due to production and the low prepayment environment. This increase in exposure to 7a IO Strips would be welcome by IO investors who are constrained by the amount of loans that are stripped prior to being pooled.

#### How are the indexes calculated?

The rules for choosing which outstanding pools are eligible for both the pool and IO indexes are the following:

##### Pool Size:

- \$5 million minimum through 1/1/2005.
- \$10 million minimum after 1/1/2005.

##### Pool Structure:

- Minimum of 5 loans inside the pool.
- Minimum average loan size of \$250,000.

##### Pool Maturity:

- Minimum of 10 years of original maturity.
- Sub indices for 10-15 years and 15-25 year maturities.

The rules for remaining in the indices are the following:

##### Pool Size:

- Minimum pool factor of .25
- Factor Updates in the Indices are on the first of the month, based on the Colson Factor Report that is released in the middle of the previous month.

##### Pool Structure:

- Minimum of 5 loans inside the pool.

We have produced two weightings for each pool in the various indexes, "Actual" and "Equal":

##### "Actual" weighted Indices:

- The actual original balance of each pool is used to weight the pool in the index.
- An index for all eligible pools, as well as one for 10-15 years and one for 15-25 years of original maturity.
- A total of 3 actual weighted sub-indices.

##### "Equal" weighted Indices:

- An original balance of \$10 million is assigned to each pool, regardless of its true size.
- An index for all eligible pools, as well as one for 10-15 years and one for 15-25 years of original maturity
- A total of 3 equal weighted sub-indices.

## GLOSSARY AND DEFINITIONS: PAGE 5

### SBI Pool and IO Strip Indexes...Continued

This equates to a total of (6 ) Pool sub-indices. We will refer to them on a go-forward basis as the following:

#### **Actual Weighting:**

- All 10-25 year in original maturity pools "All Actual"
- 10-15 year in original maturity pools "Short Actual"
- 15-25 year in original maturity pools "Long Actual"

#### **Equal Weighting:**

- All 10-25 year in original maturity pools "All Equal"
- 10-15 year in original maturity pools "Short Equal"
- 15-25 year in original maturity pools "Long Equal"

#### **Return Calculations**

Each index is tracked by its value on a daily basis, as well as the components of return.

#### **Income Component**

- Daily return is calculated for the contribution of interest earned.

#### **Mark-to-Market Component**

- Daily return is calculated for the contribution of Mark-To-Market changes.

#### **Scheduled Principal Component**

- Daily return is calculated for the contribution of normal principal payments. Only impacts the first of the month.

#### **Prepaid Principal Component**

- Daily return is calculated for the contribution of prepaid principal payments. Only impacts the first of the month.
- We have also added a Default Principal Component and a Voluntary Principal Component that, together, equate to the Prepaid Principal Component. This also only impacts the first of the month.

#### **Total Principal Component**

- Daily return is calculated for the contribution of all principal payments. Only impacts the first of the month.

The formula for Total Daily Return is as follows:

$$\text{Total Daily Return} = \text{Income Return} + \text{MTM Return} + \text{Principal Return}$$

The Principal Return is generated using the following formula:

$$\text{Principal Return} = \text{Prepaid Principal Return} + \text{Scheduled Principal Return}$$

The I/O Strip Indexes are a bit more involved, since we have to calculate the pricing multiple, as well as the breakdown between income earned and return of capital from interest accruals and payments. Here are the specific rules for the I/O Strip Indexes:

- The I/O Strip Indices utilize the same pools as the Pool Indices.
- Each pool is synthetically "stripped" upon entering the I/O Indices.
- For the equal and actual weighted indices and the maturity sub-indices (10-15 and 15-25), the pools are split into two even buckets utilizing the pool reset margins. The bucket with the higher margins we refer to as the "Upper Bucket" and the lower margin pools are in the "Lower Bucket".
- The weighted average reset margin and pool MTM is calculated for each bucket. The MTM is the same one utilized in the pool indices.
- The weighted average price of the Lower Bucket is subtracted from the Upper Bucket. The same thing is done for the weighted average reset margin.
- The MTM difference is divided by the reset margin difference, giving us the pricing multiple by maturity and weighting.
- The end result is a pricing multiple for equal and actual weighting for 10-15 year pools and 15-25 year pools, totaling (4 ) distinct multiples.
- Not all interest received is considered earned income, therefore interest received by the stripped pools is divided into earnings and return of capital, utilizing OID accounting rules.

## GLOSSARY AND DEFINITIONS: PAGE 6

### SBI Pool and IO Strip Indexes...Continued

- The OID accounting rule create a straight-line return of capital upon entry into the index and the difference between the return of capital and interest received is earned income.
- Fundamentally, high prepayments can push more received interest into return of capital, thus limiting earned income. Excellent prepayment performance can generate large amounts of earned income over time.

Once the return percentages are determined for each day, it is then applied to the previous day's index level, in order to calculate the index levels for that day.

#### Supporting Calculations

To aid in the analysis of the indexes, we track (22) distinct calculations for each of the (6) sub-indices:

##### Size

- Pool count and total outstanding balance

##### Structure

- Weighted average issue date, maturity date, reset date, maturity months, remaining months, age, coupon, reset margin, strip percent (strip indexes only).

##### Price and Yield

- Weighted average pool price, bond-equivalent yield, strip discount rate, multiple and strip pricing (strip indexes only)

##### Other Calculations

- CPR assumption, weighted average life, modified duration, index duration, strip duration and strip return of capital average life.

#### SBA 504 Debenture and SBIC Debenture Indexes

While the above calculations for both the SBA 504 Debenture (SBAP) and SBIC Debenture Indexes are the same, there are differences in structure and reporting between all three SBA Programs. Here are the differences:

- SBAP's have monthly factor updates for 20 year (deemed "Long") but bi-monthly updates for 10-year paper ("Short").
- SBAP's have one new 20-year maturity each month and one 10-year every other month.
- SBICs only have 10 year debentures and they update factors only twice a year, in March and September.
- SBICs have a new debenture issued in the same months as above.
- SBICs do not amortize, whereas both SBAPs and 7a Pools do. For this reason, there is no Scheduled Principal Sub-Index.
- While 7a pools are all floating rate securities in the indexes, SBAP and SBICs debentures are all fixed rate, thus having longer durations and greater sensitivity to interest rate movements.

#### SBA Composite Indexes

The SBI Composite Indexes combine the four primary indexes (7a Pools, 7a IO Strips, SBAPs and SBICs) into one suite of indexes. While the actual weighted indexes use the four primary actual indexes weighted by actual size, the equal weighted indexes use the four primary equal weighted indexes also weighted by actual size. Due to the fact that the three SBA programs have grown, and continue to grow, at different rates since 1999, a static equal weighting methodology would create balancing issues over time. Therefore, we thought it best to weight the equal indexes by the actual program sizes.

The Composite indexes have all of the same sub-indexes as the four primary indexes.

## GLOSSARY AND DEFINITIONS: PAGE 7

### SBI Rich / Cheap Analysis

The SBI Rich /Cheap Analysis is an attempt to create a “fair value” pricing model, based on 13 years of historical index pricing. We then compare the fair value price to current market levels, as represented by the GLS pricing models. We do this for 10 to 15 year maturity index-eligible pools and for 15+ maturity ones, effectively creating two separate calculations.

The first step was to create a fair value pricing algorithm for each maturity bucket, which is based on the following historical inputs:

#### **Fundamental Inputs:**

- The rolling 12-month historical CPR for all pools, including non-eligible ones, inside each maturity bucket.
- The previous month's 1 month CPR for the same population and maturity bucket.
- We used all pools, since the GLS pricing models do not differentiate between eligible and non-eligible pools.
- Weighted average pool coupon.

We chose the prepayment inputs in order to provide a directional element for pool prepayments. For instance, when the 1 month CPR is lower than the 12 month one, than the trend for prepayments is lower and when it is higher, the trend is toward higher prepayments.

We added the coupon input to add market level interest rates to the analysis. Since we are only using floating-rate SBA 7a pools that reset monthly or quarterly, this input is a proxy for the base rate on the pricing date.

#### **Structural Inputs:**

- Weighted average pool net margin to the base rate.
- Weighted average remaining months to maturity.
- Weighted average pool age.

The structural inputs put the weighted average index price into context, based on the amount and number of interest payments into the future.

The algorithm will be re-calibrated on an annual basis with the addition of the previous year's pricing data and then applied to the next year's pricing data to calculate the fair value price.

#### **Methodology**

We used multiple regression for the analysis and achieved an r-squared of .80 for the 10-15 year maturity bucket and .95 for the 15+ maturity bucket. We then subtracted the fair value price from the index pricing level to find the difference between these two pricing elements. Basically, when the index pricing level is higher than the fair value price, the index price is, to varying degrees, “rich” and when it is below the fair value price, it is “cheap”.

Additionally, we determined that a “Fair Value Band” was necessary for the analysis. We decided that when the two pricing components are within +.50 and -.50 of each other (green portion of the accompanying graph), the index pricing level was fairly valued as per the model. When the index price rose above the fair value band, the market for SBA pools is considered “Rich”, or expensive compared to historical pricing and when it is below the band, it is “Cheap” or inexpensive as compared to our fair value price.



## GLOSSARY AND DEFINITIONS: PAGE 8

### SBIC Debenture Program

A Small Business Investment Company (SBIC) is a privately owned and operated company that makes long-term investments in American small businesses and is licensed by the United States Small Business Administration (SBA).

A principal reason for a company to become licensed as an SBIC is access to financing (Leverage) provided by SBA. In addition, banks and Federal savings associations (as well as their holding companies) have the ability to own or to invest in SBICs and thereby to own indirectly more than 5 percent of the voting stock of a small business,<sup>1</sup> and can receive Community Reinvestment Act credit for SBIC investments. Banks and their holding companies also receive exemptions from certain capital charge regulations and lending "affiliation" rules under the Gramm-Leach-Bliley Act. A business seeking a U.S. Government contract that is a set aside for small businesses does not lose its status as a small business by reason of a control investment by an SBIC. Many Business Development Companies (BDCs) also have formed SBIC "subsidiaries" as part of their business strategies.

The SBIC Program has undergone significant changes since its creation in 1958. The original Program permitted only Debenture Leverage. The Small Business Equity Enhancement Act of 1992 drastically changed the SBIC program. It created a new form of SBA Leverage known as "Participating Securities" (essentially preferred limited partnership interests); increased the amount of Leverage available to an SBIC to \$90 million (which subsequently was indexed to reflect changes in the cost of living since March 31, 1993 and then modified in 2009 to be \$150 million); required minimum private capital of \$10 million for SBICs using Participating Securities and \$5 million for SBICs using Debentures; provided for stricter SBA licensing standards; and enacted other changes to make the program more consistent with the private venture capital industry. Unlike the Debenture program which requires periodic interest payments, the Participating Securities program required an SBIC to pay SBA a prioritized payment (preferred return) and a profit share when the SBIC realized profits. As a consequence, the Participating Securities program was designed to permit investing in equity securities whether or not those securities had a current pay component. This new program resulted in a large expansion of the number of SBIC licenses granted. Following the burst of the "technology bubble" in 2002, the Administration decided there was no longer a need for an equity SBIC program and determined that the existing participating securities program would result in significant losses to SBA. Accordingly, SBA terminated the program, and that beginning on October 1, 2004, stopped issuing commitments to use participating securities leverage and licensing new participating securities SBICs.

SBA currently provides financing (called "Leverage") to SBICs in the form of "Debentures." Debentures are unsecured ten-year loans issued by the SBIC that have interest-only payable semi-annually. Most Debentures bear a temporary interest rate based on LIBOR. The interest rate on these Debentures is fixed when the SBA pools Debentures from various SBICs and sells them to the public, with the pooled Debentures having a 10-year maturity from the sale date.

It is these debentures that are analyzed in the CPR Report.

Since SBIC Debentures do not have an amortization component, I have added a different CPR calculation inside the CPR Report.

I call it the "Amortization Equivalent CPR" (AECPR). Since the principal balance does not amortize for SBIC debentures, it makes it difficult to compare them, from a pre-payment perspective, to amortizing assets, such as SBA 7a and 504 debenture pools.

The AECPR assumes the asset amortizes and looks at the beginning and ending balance to calculate the CPR. The calculation uses the exact MBA (Mortgage Banker's Association) standard formula for CPR.

Because of the amortization assumption, the AECPR is always lower than the normal CPR calculation for SBIC pools, and can go below zero if the principal reduction does not fully offset the assumed amortization amount.



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