

### IN THIS ISSUE:

- Economy: remains positive amid slowing in both growth and job creation.
- Concerns as yield curve inverts. Record budget deficits, trade wars, price volatility. Q2 2019 construction deliveries down 30% year over year.
- Feature CMBS hotel exposure cyclical, front, and center in a recession. And Houston has a problem.
- · Three trends we are watching

A portion of the information contained herein is derived from information provided by parties unrelated to us. This publication does not constitute a solicitation to purchase or sell any security or investment, to take any action, nor should it be construed in any way as investment, tax, legal, or accounting advice. CWCapital shall not be liable to any party for any matters for any reason, including for any investment decision made by such party based upon this or other information. By accessing and/or reviewing this report, you acknowledge and agree to the foregoing.



In this issue of the CWCapital Markets Update, we focus on the fundamentals and trends affecting national commercial real estate debt markets. Our feature reviews risks associated with hotels as an asset class. We synthesize and present information gathered from various industry research, public resources, and our own research.

#### THE ECONOMY

- **The July jobs report** noted that the economy continues to grow but at the slower pace of 164,000 jobs created. Employment in the professional and business services category again led with 300,000 jobs created year-over-year, which is down from over 500,000 jobs created in the in the April 2019 year-over-year time frame. Manufacturing and mining jobs remained relatively flat to slightly declining on a year-over year basis.
- The unemployment rate was unchanged at 3.7%, among the lowest levels since 1969. The participation rate was 63%. Average hourly earnings remained on growth track of 3.2% year-over year. As of July 2019, El Centro CA, Yuma AZ, have reported the highest unemployment in the nation with both over 20%. Portland ME and Burlington VT report the lowest with rates less than 2.0% each.
- The 10-year US Treasury was 1.51% as of this writing, declining over 100bps from last year end. Much of the decline reflects overall concerns about global trade agreements, or the lack thereof, geopolitical issues, and other uncertainty. As we have warned for months, the 2/10 spread is now inverted at -1bp. Bloomberg News reports that the US posted a \$738.6bn budget deficit for the first 8 months in May, the largest ever on record. The current deficit is nearly 40% larger than just a year ago. Corporate and individual income taxes decline, trade uncertainties abound. We remain concerned about long term debt levels, and real estate price weakness on the horizon.

#### PROPERTY MARKETS

- **Effective rent growth** National average shows a 2.88% one-year growth rate, slowing from over 3%. Multi-family rents grew 4.6% for the year, while retail growth continues to lag at 1.85%, continuing to slow.
- Vacancy rates For the trailing 1-yr period, vacancy rates improved in multi-family and retail properties, but declined in office and industrial properties. Deliveries slowed by 25%-30% across multifamily, office, retail, and industrial properties year over year as of July. Absorption was positively impacted, but we feel this is related more to slowing construction pipelines. We generally expect continued vacancy increases across all categories as heavy construction pipelines are completed.
- **National property prices** for multi-family increased by 8.3% on a rolling 3-year basis, while hotel properties showed a 4th consecutive month of declines year-over-year. Continuing its macro-decline, retail has lost value per unit (3yr basis) nearly every month for the past 2 yrs.

### **DEBT CAPITAL MARKETS**

- **Credit spreads** generally tighten in 2019 with CMBS BBB- coming in approximately 128bps year to date. YTD19 CMBS conduit issuance of \$26.5bn is slightly ahead of last year's levels by \$200m. This periodic increase reverses what has been a continuously declining year-over-year market share decline on the part of CMBS. Competing products such as FHLMC, SASB, CRE-CLO, and balance sheet lenders have taken market share.
- CMBS risk retention pricing for horizontal subordinates is in the 14% range, L-shaped subordinates are in the 18-20% range.
- **Conduit delinquency rates** dropped to 1.57% this month, reflecting continued improvement.

#### THREE TRENDS WE ARE WATCHING

- Cyclical highs in property prices all property types experiencing price volatility at national level. Multifamily, hotel, and industrial building at a very robust pace. Over-building a concern. Over-levered properties finding their way into rated securitizations.
- Slowing construction deliveries of note, property deliveries across asset classes appear to have finally started to slow in 1H 2019 relative to same period last year. Although this helps absorption figures, we remain concerned about the amount of inventory delivered across asset classes and in certain markets.
- **Economic uncertainty** global trade uncertainty, the impact of tariffs, ballooning deficits, and the potential for negative real interest rates (the current 10yr real rate is negative at -.08%) provides the basis for general concern over asset prices and performance across the CRE asset classes.



# **FEATURE** — CMBS hotel exposure – cyclical, front and center in a recession. And Houston has a problem.

Commercial real estate continues to hit cyclical highs, and the inverting curve recession warnings have been clear for months. So what are some of the first things to happen to commercial real estate during such periods?

Reviewing 15 years of national average price information can reveal some interesting clues. One should be obvious to investors though, and that is the volatility of hotel values.

On a fundamental basis, hotels have the shortest "lease" periods, reset their rates daily, require continuous capital investment, and are subject to intense competition in the form of newer construction. In addition to changing customer preferences, hotels can be quite cyclical and hit very hard when businesses and leisure travelers curtail travel during recessionary times.

Based on our review of over 2,300 hotels currently active in CMBS securitizations, price information (sourced from RCA) and other data, we have concerns about near to medium-term performance for this asset class.

**Volatility:** For context, national average hotel values declined by over 56% during the financial crisis, from 2006's peak to the trough in late 2009. That was by far the largest drop with the average for other asset types closer to the mid 30% area.

 Over a 15-yr period, hotel price volatility is nearly 2x that of office properties, and nearly 3x industrial and multifamily per unit volatility.

		Natio	onal Average \$price	/ unit	
Year End	MF	Retail	Hotel	Office	Indust
Peak Date	Jul-19	Aug-16	Apr-15	Jul-19	Jul-19
Trough Date	Sep-09	Jun-10	Dec-09	Mar-10	Apr-10
Peak Valuation	174,746.8	248.1	201,238.3	330.2	101.5
Trough Valuation	73,804.9	128.0	59,012.2	132.0	44.7
% Decline from 2006	34.93%	26.55%	56.77%	43.20%	33.07%
Current vs '06	54.1%	17.0%	-0.1%	42.1%	52.1%
Current vs Peak	0.0%	-17.8%	-32.2%	0.0%	0.0%
Current vs Trough	2.37	1.59	2.31	2.50	2.27
5yr Growth Rate	7.7%	-0.8%	2.4%	3.0%	6.3%
10yr Growth Rate	7.1%	-0.6%	5.0%	3.0%	3.4%
Volatility	11.7%	13.7%	29.7%	17.2%	10.8%

**As a Leading Indicator:** Entering into the financial crisis in 2007, hotel values began a steady and consistent year-over-year price decline almost 18 months before other property types began to turn sharply negative (year-over-year) in early 2009. Aside from the recent macro-trend decline in retail property prices, national average hotel prices have now declined for the 4th consecutive month on a year-over-year basis. Although other property types have experienced occasional declines, the hotel trend appears more consistent. National hotel per unit prices are now roughly equal to where they stood in 2006 prior to the crisis. Of all property types, hotel is also off its most recent peak values by nearly 30%.



# CMBS HOTEL CYCLICALITY — What Are The Drivers?

- Decelerating Demand Slowing consumer spending, uncertainty around global trade, and the perception of approaching recession are several of the factors highlighted by PWC in its August 2019 outlook. Current expected ADR and RevPar are anticipated to increase by only 1% for the coming year. These levels are by far the lowest in the past 10 years, which averaged 5%.
- Overbuilding A recent publication by Lodging Econometrics indicates that the US has 5,530 hotel projects under construction (670,000 rooms). The current pipeline is only approximately 17% short of the historical peak in 2008. As of late 2018, ConstructionDrive News reported that major pipelines in New York, Dallas, Los Angeles, Houston, and Nashville combined with Miami, Detroit, Seattle, Denver, and Boston, all had building pipelines greater than 15% of current local inventory.
- Performance Existing performance issues across the top 25 MSAs are presented below. Houston leads the nation with 13 defaulted or previously defaulted hotels. That is nearly a 24% default rate, nearly 5x the national average. Correspondingly, it also has the highest cap rate of 10.2%. Oil price volatility, energy corridor relocation, distorted demand as a result of hurricane events, and corporate right-sizing all contribute to the problems. Notably, Houston also reports the nation's 3rd largest construction pipeline with over 5,500 rooms under construction, 6,000 more scheduled to start within 12 months, and 5,000 in planning. That is an increase of nearly 20% of current inventory. While Houston may be more reflective of local economic sensitivities, an overall economic slowdown is likely to only add to the distress.

Rank	MSA	Props	Rooms	\$ Balance	Defaulted	Deflt Rate	Cap Rt
1	New York, NY	103	25,832	4,502.1	6	5.8%	7.01%
2	Los Angeles	91	32,049	4,189.5	2	2.2%	7.08%
3	Chicago	54	27,067	2,772.8	4	7.4%	9.57%
4	Dallas-Ft. Worth	59	25,676	2,462.1	2	3.4%	8.94%
5	Houston	55	13,015	980.1	13	23.6%	10.19%
6	Washington DC	41	6,890	1,207.7	4	9.8%	8.43%
7	Miami-Ft. Lauderdale	59	13,888	2,604.9	1	1.7%	6.56%
8	Philadelphia	33	9,071	733.1	2	6.1%	8.10%
9	Atlanta	64	15,853	1,672.6	2	3.1%	8.76%
10	Boston	12	2,888	498.5	-	0.0%	7.40%
11	Phoenix	24	4,881	813.6	-	0.0%	7.09%
12	San Francisco	38	37,008	3,529.8	-	0.0%	5.58%
13	Riverside CA	23	4,925	399.5	-	0.0%	9.94%
14	Detroit	41	10,465	713.8	1	2.4%	7.97%
15	Seattle	33	15,978	1,268.8	-	0.0%	7.70%
16	Minneapolis-St. Paul	6	1,812	335.9	-	0.0%	8.30%
17	San Diego	41	20,230	2,190.5	1	2.4%	7.35%
18	Tampa-St. Petersburg	24	4,067	430.6	1	4.2%	7.47%
19	Denver	22	26,456	1,252.0	1	4.5%	7.47%
20	St. Louis	12	8,693	446.5	-	0.0%	9.11%
21	Baltimore	22	5,037	458.6	2	9.1%	8.61%
22	Orlando	45	19,734	2,290.7	0	0.0%	9.05%
23	Charlotte	43	6,950	577.5	-	0.0%	8.86%
24	San Antonio	12	41,585	1,140.7	-	0.0%	7.49%
25	Portland OR	19	11,566	1,645.3	-	0.0%	8.03%
	Other MSAs	1,340	577,108	35,737.5	76	5.7%	5.30%
		2,316	968,724	74,854.8	118	5.1%	



# SELECTED MARKET DATA — Economic and Real Estate Fundamentals and Trends

	2009	2014	2016	2017	2018	Current	1yr	5yr	10yr
Economic									
UNEMP	9.90	5.60	4.70	4.10	3.90	3.70	-0.30%	-2.40%	-5.80%
PART	64.60	62.70	62.70	62.70	63.10	63.00	0.10%	0.20%	-2.70%
GDP	14,567	17,616	18,869	19,831	20,898	21,339	4.54%	5.13%	4.84%
CPI-TTM	2.28%	-0.05%	1.91%	2.09%	1.40%	1.75%	-1.19%	-0.28%	3.70%
UST IMPL INF	2.37%	1.68%	1.95%	1.96%	1.71%	1.59%	-0.52%	-0.67%	-0.16%
Interest Rate									
1M LIBOR	0.32%	0.17%	0.77%	1.56%	2.50%	2.12%	0.02%	1.96%	1.47%
Eff Fed Funds	0.12%	0.12%	0.50%	1.31%	2.40%	2.11%	0.21%	2.01%	1.90%
Prime	3.25%	3.25%	3.75%	4.50%	5.50%	5.25%	0.25%	2.00%	2.00%
UST2	1.14%	0.67%	1.20%	1.89%	2.49%	1.52%	-1.00%	1.05%	0.41%
UST10	3.85%	2.17%	2.45%	2.40%	2.69%	1.51%	-1.34%	-1.02%	-2.02%
2/10 Spread	2.71%	1.50%	1.25%	0.51%	0.20%	-0.01%	-0.34%	-2.07%	-2.43%
Real10	1.48%	0.49%	0.50%	0.44%	0.98%	-0.08%	-0.82%	-0.35%	-1.86%
Vacancy (REIS)									
Multi	8.00%	4.20%	4.20%	4.50%	4.80%	4.70%	-0.10%	0.50%	-3.30%
Retail	10.60%	10.20%	9.90%	10.00%	10.20%	10.10%	-0.20%	-0.30%	-0.50%
Office	17.00%	16.70%	15.80%	16.40%	16.70%	16.80%	0.20%	-0.10%	-0.20%
Industrial	n/a	11.20%	10.30%	8.90%	10.20%	10.10%	0.80%	-1.20%	n/a
Hotel									
Rents (REIS Effective)									
Multi	964	1,124	1,252	1,305	1,356	1,400	4.63%	5.34%	4.52%
Retail	16.75	17.16	17.89	18.24	18.53	18.73	1.85%	2.05%	1.18%
Office	22.43	24.19	25.93	26.43	27.04	27.43	2.24%	3.02%	2.23%
Industrial	n/a	4.46	4.66	4.96	5.08	\$5.16	2.79%	3.51%	n/a
Hotel									
National \$PSF (RCA)									
Multi	81,953	132,159	152,206	153,656	168,075	174,747	12.82%	10.77%	10.59%
Retail	144	198	200	177	171	204	16.82%	0.19%	4.56%
Office	152	223	235	241	268	330	22.66%	7.34%	13.65%
Industrial	47	69	78	79	88	101	16.97%	10.60%	6.60%
Hotel	59,012	134,398	153,841	143,596	146,341	136,409	-1.54%	0.45%	11.59%
National Cap Rate (RCA)									
MF	6.84%	6.05%	5.70%	5.62%	5.53%	5.48%	-0.09%	-0.71%	-1.27%
Ret	7.96%	6.63%	6.52%	6.60%	6.51%	6.70%	0.16%	-0.19%	-0.60%
Office	8.75%	6.75%	6.59%	6.73%	6.57%	6.86%	0.23%	-0.09%	-0.78%
Ind	8.37%	6.99%	6.80%	6.74%	6.48%	6.40%	0.05%	-0.82%	-1.80%
Hotel	9.55%	8.14%	8.50%	8.51%	8.39%	8.70%	-0.16%	0.50%	-0.65%
Risk Premium									
MF	2.99%	3.88%	3.25%	3.22%	2.85%	3.97%	1.25%	0.31%	0.75%
Ret	4.11%	4.46%	4.07%	4.20%	3.83%	5.19%	1.50%	0.84%	1.42%
Office	4.90%	4.58%	4.14%	4.33%	3.89%	5.35%	1.57%	0.93%	1.25%
Ind	4.52%	4.82%	4.35%	4.34%	3.80%	4.89%	1.39%	0.20%	0.22%
Hotel	5.70%	5.97%	6.05%	6.11%	5.71%	7.19%	1.18%	1.52%	1.38%

© 2019 CW Financial Services LLC

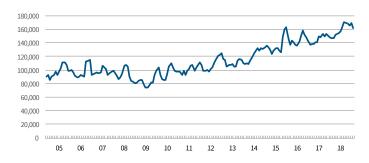


# CRE FUNDAMENTALS — Property Price and Vacancy

		National	National Average \$price / unit										
Year End	MF	Retail	Hotel	Ofc	Ind								
Peak	174,746.8	248.1	201,238.3	330.2	101.5								
Trough	73,804.9	128.0	59,012.2	132.0	44.7								
Fall fr '06	34.93%	26.55%	56.77%	43.20%	33.07%								
Peak Date	Jul-19	Aug-16	Apr-15	Jul-19	Jul-19								
Trough Date	Sep-09	Jun-10	Dec-09	Mar-10	Apr-10								
Curr vs '06	54.1%	17.0%	-0.1%	42.1%	52.1%								
Curr vs Pk	0.0%	-17.8%	-32.2%	0.0%	0.0%								
Curr vs Tr	2.37	1.59	2.31	2.50	2.27								
5yr GR	7.7%	-0.8%	2.4%	3.0%	6.3%								
10yr GR	7.1%	-0.6%	5.0%	3.0%	3.4%								
Volatility	11.7%	13.7%	29.7%	17.2%	10.8%								

		Va	cancy Trend		
Year End	MF	Retail	Hotel	Ofc	Ind
2005	2.89	3.23	-	3.19	-
2006	4.38	3.37	-	8.93	-
2007	4.73	2.39	-	10.54	-
2008	1.95	(1.02)	-	0.24	-
2009	(2.92)	(3.68)	-	(8.86)	-
2010	2.39	(1.43)	-	(1.52)	-
2011	2.43	(0.06)	-	2.04	(0.48)
2012	3.86	0.48	-	1.95	1.91
2013	3.33	1.51	-	2.22	1.64
2014	3.69	1.96	-	3.02	2.76
2015	5.16	2.21	-	3.18	2.02
2016	5.83	2.00	-	3.84	2.42
2017	4.23	1.96	-	1.93	6.44
2018	5.21	1.81	-	2.65	4.03
Curr	4.63	1.85	-	2.24	2.79

### Multifamily



#### Retail



### Office



#### Hotel

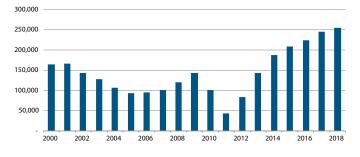




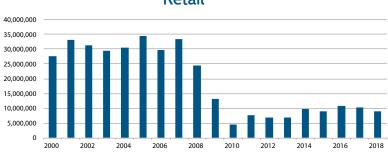
# CRE FUNDAMENTALS — Commercial Property Deliveries and Absorption

		Del	liveries			Net A	bsorption		
Year	Multi	Retail	Office	Ind / Whse	Multi	Retail	Office	Ind / Whse	Notes
1999	206,040	25,126,000	120,280,000	-					
2000	164,674	27,727,000	111,061,000	-	1.34x	1.42x	(1.02)		Multifamily - Mid-yr deliveries slowing.  • Mid-year deliv 30% lower than 2018
2001	166,124	33,013,000	134,904,000	-	0.12x	0.59x	(0.28)		Net absorption approx 1.03x, first
2002	143,957	31,369,000	81,422,000	-	(0.04)	0.87x	(0.15)		• at or above 1.0x in 5yrs.
2003	127,591	29,416,000	41,016,000	-	0.35x	0.97x	0.99x		Retail deliveries continue to decline.
2004	106,144	30,596,000	35,475,000	-	0.48x	1.06x	1.91x		Mid-year deliv 25% lower than 2018
2005	93,699	34,438,000	39,792,000	-	0.35x	1.03x	1.43x		Net absorption now positive
2006	95,205	29,627,000	49,879,000	-	(0.03)	0.75x	1.08x		Office - deliveries fall by half vs 1H 2018.
2007	100,630	33,254,000	59,902,000	-	0.99x	0.71x	(0.69)		<ul><li>Net absorption &lt;1.0x for 4 years</li><li>Slow, steady ~2% rent growth</li></ul>
2008	119,630	24,545,000	65,450,000	-	0.10x	(0.27)	(1.18)		, ,
2009	143,130	13,142,000	50,548,000	-	0.02x	(1.64)	(0.42)		Industr/Whse deliveries slow by 30% vs 2018  • Trend of record high deliveries
2010	101,268	4,499,000	23,375,000	10,017,000	2.27x	(0.71)	0.71x	(3.51)	Net absorption still below 1.0x
2011	42,606	7,625,000	15,440,000	13,388,000	4.03x	0.83x	1.01x	4.83x	
2012	82,679	6,778,000	12,443,000	22,585,000	1.67x	1.67x	1.86x	3.82x	
2013	143,227	6,883,000	25,959,000	38,740,000	1.14x	1.84x	1.08x	1.73x	
2014	188,125	9,776,000	28,287,000	76,678,000	0.95x	1.36x	1.36x	1.27x	
2015	209,409	9,088,000	36,642,000	78,848,000	0.96x	1.36x	0.79x	1.46x	
2016	223,840	10,815,000	36,659,000	95,459,000	0.96x	1.07x	0.63x	1.42x	
2017	246,140	10,318,000	39,048,000	137,428,000	0.76x	0.68x	0.74x	1.15x	
2018	254,733	8,986,000	47,426,000	140,190,000	0.87x	0.14x	0.53x	0.73x	
Curr	81,666	2,927,000	13,191,000	43,893,000	1.03x	1.25x	0.62x	0.43x	

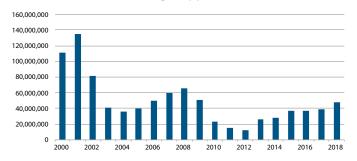
### **Multifamily**



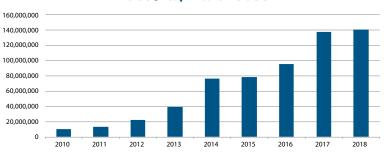
#### Retail



#### Office



#### Industrial/Warehouse





### SECURITIZED MARKETS - 2019 Conduit and SASB Issuance

DAMPS 229-89   120,1279   583.02   Wolfs Parger	CMBS	Conduit	RCMT 2019-5	01/28/19	399.21	KeyBank	KeyBank	Ready Capital		127	#LOAN 95	RR Type HRZ	RR Yld
BAND 2019 BAND 501	CINDS	Conduit											-
## Description of the control of the													-
WGCA0205-C91   QQ21179   774-23   Wells Farge   Medicard   Medic												HRZ	13.84
CAMA_2006_6104   CO2_1210   E22_22													13.50
MAC 2019 LET   COUNTY   COUN													15.15
BANK 2029 BANK 217   02/21/21   5252   48   VEFT   10   VEFT   1													14.50
BMM69/2015-ED1   00/21/219   125-00   repellable   Life Persons													16.75
UBSCA 2016-C16   0327779   050577   Michael													-
CF 2005-CE1													14.00
WELFA 2019-CG   Co. 1971/93   93.7177   Welfs Region   Meland													20.34
BCCHS 2016-C1   C02/17/3   93.555   Midbard   Midbard   Midbard   C02/12/3   Log   C02/13/3   Midbard   Risk Copiella   C24   4.0   William   C02/13/3   Midbard   Log   Risk Copiella   C24   Midbard   Risk Copiella   Risk Copiella   C24   Midbard   Risk Copiella   Risk Copiella   C24   Midbard   Risk Copiella   Risk Copiell													-
DANK_2019-1618   CO1971-19   1.036-79   Welfs Fago   Relatic Capital   Cap					802.54					64			20.25
DAMSAC 2019-011													14.06
MSC 2019-167   MSC													-
PMC21915-C015   C01/19/3   G06464   Melland   Melland   Conference   135   64   1872   C01/19/3   PMC21915-C015   C07/19/3   July   Melland   C07/19/3   M													13.95
CAM_2018_C164   036,7479   787.51   Midland   Life Bratners   96													13.50
WECK 2019-CC   06/74/179   129-456   Wells Farge   Cell   Prime Finance   105   54   NEZ   Cell   Nez   Cel													13.95
MSC 2019-147   977/5/19   74-509   Milland   LAR Partners   Afgents   11   53   1817   17   17   17   17   17   17													14.20
BAMAR (2019-BAIC)			GSMS 2019-GC40					Eightfold					19.13
BAHK 2019-BMT9   077-2719   1,307-24   Wells Farger   Life Partners   Seer / JMR   76   73   VET   V													13.75
COCMT 2019-0C41   Oxford 1998-199   1-776-64   Middland   Middla													16.69
NFCM 2010-CS2   06(95/19   9900-24   Wells Fargo   LNR Partners   Agentic   126   67   HRZ   100(15)   127													17.71
BBCMS 2019-64   B(9)(9)(1)													17.71 14.07
CP 2019-CRB													26.25
SFRIDS													18.05
CAMP   SASB   CGCM 2019-SMFT   01/10/19   641.0   Society   March   11/10/19   641.0   Society   March   11/10/19   641.0   Society   March   11/10/19   SOCIETY   11/10/19   S				55, 55, 25				-8				_	
CAMP   SASB   CGCM 2019-SMFT   01/10/19   641.0   Society   March   11/10/19   641.0   Society   March   11/10/19   641.0   Society   March   11/10/19   SOCIETY   11/10/19   S	Tune		CEDIEC	Drieine	AMOUNT	SELLED	CDCEDV	Dick Detention	Accet			DD Turno	RR Yld
NYT 2019-NPT		SASB								ge Marts			4.76
CAME 2019-FIRE DI/S1/19 1177-00 Brookfield Training DB, BOA B Life Sci OF, Cambridge VERT Company Comp	•					Brookfield			NY Times	Building			-
WBHT 2019-WRM   COMP			CAMB 2019-LIFE	01/25/19	1,170.00	Brookfield	Trimont	DB, BOA	8 Life Sci 0	Ofc, Cambridge		VERT	-
CSMC 2019-SKLZ   C) (20/19)   32.00   Ampsyline Properties   KeyBank   KeyDank   Key													
CFX 2019-FAXE BBCKK 5019-CPL BBCKK 5019-CPL BBCKK 5019-CPL BBCKK 5019-CPL BBCKK 5019-CPL BCCCMT 2019-SST7 CCCMT 2019-SST7 CCCCMT 2019-SST7 CCCCCMT 2019-SST7 CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC													L+588
BBCMS 2019-CLP   02/14/19   20.00.5   Blackstone													L+700
MTRO 2019-TECH   07/14/19   28.00.0   Brookfield   Trimont   Register,   Reg													
CGCMT 2019-SST72   02/21/19   18,000   SnartSt00 Asset Mgt   KeyBank   Carlot   Ca													-
ILPT 2019-SURF   03/01/19   390.00   Industrial Logistics   Finition Capital   Prima Capital   186 Honolulus Gmd Lease   HRZ   Concentration   Heavy Con						SmartStop Asset Mgt			29 Self Sto	rage			-
CAU 2019-101C   03/07/19   515.00   GC, Hong Kong, Hines   Midland   CPPIB Canada   101 California St. San Fran   HRZ   CSZ 2019-RGLN   03/20/19   321.00   E1-dd Group   KeyBank   Morgan Stanley   42 industrial / office   VERT   REVERTING   VERT						Industrial Logistics		Prima Capital					5.75
CCST 2019-CH12   G315/19   S30.00   Cloverleaf Cold Sig   KeyBank   MSC 2019-MCN   G10/19													-
MSC 2019-MCN   G3/20/19   321.00   El-Ald Group   KeyBank   Morgan Stanley   42 Industrial / office   VERT   RET. 12019-NRP   G3/21/19   910.00   Retail Value Inc.   KeyBank   Nativo   MEMA San Francisco - Apts   VERT   NATIONAL   VERT   MEMORE   VERT						GIC, Hong Kong, Hines							6.25
RETL 2019-RVP   03/21/19   900.00   Relati Value linc.   KeyBank   WANCO   36 mall [PR], power ctr   HRZ   MCM 2019-NEMA   03/22/19   240.00   Ashford Hospitality   KeyBank   BOA   Renalscance Nativitie   VERT   MCM 2019-NEMA   03/22/19   240.00   Ashford Hospitality   KeyBank   BOA   Renalscance Nativitie   VERT   WANCO   VERT   WANCO   VERT   WANCO   VERT   WANCO   VERT   WANCO   WAN													
NCMS 2019-NEMA   03/22/19   240.00   Ashford Hospitally   Markey													L+850
DBGS 2019-1735   O4/03/19   313.38   Silverstein, Arden, Migdal   NCMS 2019-UNL   O4/12/19   20.00   Douglashon, MG, MacFarthe   Situs   Shelter Growth   She													-
NCMS 2019-1-VL   04/12/19   20.60   Douglaston, MG, MacFarlane   New Years   Nativis   2. North 6th PL Brooklyn   VERT   New Years   New													-
PMCC 2019-HOLA   04/15/19   144-70   1-25.00													-
No.NHT 2019-HNILA   04/17/19   32.500   AllianceBernstein, Berger   Trimont   Shelter Growth   Hyatt Regency New Orleans   HRZ													12.00
MSC 2019-BPR   04/24/19   310.53   Brookfield   KeyBank   JPMCrgan   19 NYC Williamily   VERT   15 NYC   15 N													12.00 L+935
PMCC 2019-NCD NUES   04/29/19   56.70   1con Realty   CWCAM   PMongran   19 NVC Multifamily   VERT   SEX 2019-PLND   05/02/19   11,500   18									3 Malls - V	aReach NM Fla			L+933
BX 2019-HNC   05/02/19   1,150.00   Blackstone, Fireside   LNR Partners   Oskree   16 showroom properties   HRZ   MSC 2019-MNS   05/10/19   628.00   BioMed (Blackstone)   Situs   Blackstone, Fireside   LNR Partners   Blackstone, Fireside   LNR Partners   Situs   Blackstone, Situs   Blooked (Blackstone)   HRZ   HRZ   Blooked													_
KNDL 2019-KNSQ   05/10/19   628.00   BioMed (Blackstone)   Situs   DB, GS, Citi   BioMed bldg-Cambridge MA   VERT   HHT 2019-MAUI   05/16/19   650.00   MSD Capital   Midland   KRR   Four Seasons - Maui   HRZ   MSD Capital   Midland   KRR   Four Seasons - Maui   HRZ   MSD Capital   Midland   KRR   Four Seasons - Maui   HRZ   MSD Capital   Midland   KRR   Four Seasons - Maui   HRZ   MSD Capital   Midland   KRR   Four Seasons - Maui   HRZ   MSD Capital   MIDRING - MSD Capital   MIDRING - MSD Capital   MIDRING - MSD Capital   MIDRING - MSD Capital   MSD Capi													L+650
BAMLL 2019-RLJ   05/14/19   200.00   RLJ Lodging Trust   KeyBank   BOA   7 Hotels   VERT   Four Seasons - Maui   HRZ   Seasons - Maui							CWCAM						L+950
HHT 2019-MAID										dg-Cambridge MA			-
HPLY 2019-HIT													-
JPMCC 2019-MARG   C5/21/19   161.50   KSL Capital Partners   Situs   Prima Capital   Margaritaville Resort - Fla   HRZ   JPMCC 2019-OSB   C5/29/19   2,350.00   Lineage Logistics   Situs   Prima Capital   C5/26/19   C7/21/19   23.00   Lineage Logistics   Situs   Prima Capital   C5/26/19   C7/21/19   C7/21/20   C7/22/20   C7/21/20   C7/21/										ons - Maui			L+460
CSMC 2019-ICE4   05/28/19   2,350.00   Lineage Logistics   HRZ										ille Resort - Fla			L+475
JPMCC 2019-OSB													L+495
NCMS 2019-10K			JPMCC 2019-OSB	05/29/19	395.00	Hrsn Street, MIT, Bulfinch Cos.	Situs	Prima Capital	Osborn Tr	iangle Lab - Cambr		HRZ	L+575
COMM 2019-521F			NCMS 2019-10K	05/30/19	230.00			Natixis	Ten Thous	and Apt - LA			-
CMCAM   Blackstone   Blacksto									One SoHo	Sq - NYC Office			L+320
HY 2019-30HY   06/24/19   1,008.00   Related Cos., AZ State, Allianz   Situs   DB, WF, GS   30 Hudson Yards - NYC   VERT   BX 2019-RP   06/26/19   230.00   Blackstone, STE Ctrs   Regon   Soc Gen   12 Retail Properties   VERT   MFTII 2019-B384   06/27/19   160.00   Jay Paul Co.   Situs   Barclays, DB, GS   Moffett Place - Sunnyvale CA   VERT   JPMCC 2019-MFP   06/27/19   160.00   Jay Paul Co.   Situs   Barclays, DB, GS   Moffett Place - Sunnyvale CA   VERT   JPMCC 2019-PRM   07/11/19   278.00   Prime Group Holdings   Midland   Citi   2 Self Storage Facilities   VERT   JPMCC 2019-DRD   08/07/19   950.00   Durst, BOA   Wells Fargo   NYState Teachers   One Bryant Park - BOA   HRZ   C1919-MF1   08/08/19   271.70   Blackstone, Fairstead   Trimont   Midland   - Pentagon City Marriott   HRZ   BX 2019-MMP   08/15/19   271.70   Blackstone, Fairstead   Trimont   Midland   - Pentagon City Marriott   HRZ   BX 2019-MMP   08/16/19   415.00   Blackstone, Fairstead   Trimont   Midland   - Pentagon City Marriott   HRZ   BX 2019-MMP   08/16/19   415.00   Blackstone   Sec All Sec													-
BX 2019-RP   06/26/19   230,00   Blackstone, SITE Ctrs   Aegon   Soc Gen   12 Retail Properties   VERT   Check   Che													L+445
CHC 2019-CHC   O6/26/19   1,024.48   Colony Capital   Midland   Apollo Real Estate   156 Medical Ofc Props   HRZ									12 Retail P	roperties			
MFTII 2019-B3B4   06/27/19   160.00				06/26/19			Midland						L+525
CGCMT 2019-PRM   O7/11/19   278.00   Prime Group Holdings   Midland   Citi   2 Self Storage Facilities   VERT			MFTII 2019-B3B4	06/27/19	160.00	Jay Paul Co.	Situs	Barclays, DB, GS	Moffett Pla	ace - Sunnyvale CA		VERT	-
JPMCC 2019-BOLT   O7/15/19   202.39   Occidental Mgt   Wells Fargo   NYState Teachers   One Bryant Park - BOA   HRZ													L+257
OBP 2019-OBP   OB/07/19   950.00   Durst, BOA   Wells Fargo   NYState Feachers   One Bryant Park - BOA   HRZ													-
CF 2019-MF1   08/08/19   167.35   Arbor Realty   CWCAM   -   34 Multifamily props   HRZ   11 NYC apt bldgs   VERT   HRZ   12,904.63   SEer / LNR   Arganter   1,472.73   Readty CWCAM   -   1,472.73   Readty CWCAM   -   1,472.73   Readty Capital   1,472.74   Readty Capital   1,472.75   Readty Capital   1,472.								JPMorgan					- ~L+233
BX 2019-MMP   08/15/19   271.70   Blackstone, Fairstead   Trimont   Morgan Stanley   11 NYC apt bldgs   VERT   HRZ								- iviolate reachers			_		-LTZ33
Subordinate Buyer   Conduit   SASB   Total   Special Servicers   Conduit   SASB   Total   Type   Balance								Morgan Stanlev					-
Subordinate Buyer   Conduit   SASB   Total   Special Servicers   Conduit   SASB   Total   Type   Balance					415.00			-					L+432
Rialto Capital   6,222.65   - 6,222.65   Midland   10,247.65   4,256.58   14,504.23					22,436.02								
Rialto Capital         6,222.65         -         6,222.65         Midland         10,247.65         4,256.58         14,504.23         Conduit           KKR         5,266.10         1,380.00         6,646.10         LNR Partners         6,634.69         1,150.00         7,784.69         VERT         8,323.66           Prime Finance         2,319.53         -         883.52         Keybank         2,176.60         4,805.91         6,982.51         HRZ         9,702.23           Prime / Ellington         974.84         -         974.84         Situs         -         5,881.58         5,881.58         HRZ         9,702.23           Ellington / Prime         833.03         -         833.03         Trimont         -         3,174.90         3,174.90         26,011.06           Eightfold         3,102.55         -         3,102.55         CWCAM         -         1,409.55         1,409.55           Argentic         1,647.23         -         1,647.23         CWCAM         -         -         -         -         -           LNR Partners         757.97         -         757.97         C-III         729.48         -         729.48         VERT         9,531.39           Seer / LNR	Subordina	ite Buyer	Conduit	SASB	Total	Special Servicers				Туре	Bala	nce	Deals
Prime Finance         2,319.53         -         2,319.53         Keybank         2,176.60         4,805.91         6,982.51         VERT         8,323.66         HRZ         9,702.23         Prime / Ellington         974.84         -         974.84         Stus         6,222.65         390.00         6,612.65         HRZ         9,702.23         Prime / Ellington         974.84         -         974.84         Stus         -         5,881.58         5,881.58         L         1,7955.17         Prime / Ellington / Prime         833.03         -         833.03         Trimont         -         3,174.90         3,174.90         3,174.90         26,011.06         26,0	Rialto Capi	ital	6,222.65	-	6,222.65	Midland	10,247.65	4,256.58	14,504.23				
Prime / LNR         883.52         -         883.52 situs         Rialfo Capital         6,222.65 situs         390.00 situs         6,612.65 situs         HRZ situs         9,702.23 situs         L 7,985.17 situs         1,647.23 situs         -         5,881.58 situs         L 7,985.17 situs         1,472.73 situs         -         3,174.90 situs         3,174.90 situs         3,174.90 situs         3,174.90 situs         2,647.23 situs         26,011.06 situs	KKR			1,380.00				1,150.00					
Prime / Ellington         974.84         -         974.84         -         974.84         Situs         -         5,881.58         5,881.58         5,881.58         L         7,985.17           Ellington / Prime         833.03         -         833.03         -         3,107.55         CWCAM         -         1,409.55         1,409.55         -         26,011.06         -         26,011.06         -         26,011.06         -         26,011.06         -         26,011.06         -         26,011.06         - <td< td=""><td></td><td></td><td></td><td>-  </td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>8</td></td<>				-									8
Ellington / Prime 833.03 - 833.03   Trimont - 3,174.90   3,174.90   3,174.90   5,149.55   3,102.55   3,102.55   CWCAM - 1,409.55   1				-			6,222.65						13
Eightfold     3,102.55     -     3,102.55     CWCAM     -     1,409.55     1,409.55     1,409.55     -     -       Argentic     1,647.23     -     1,647.23     CBRE     -     -     -     -     -     -       LoanCore     1,472.73     -     1,472.73     Wells Fargo     -     950.00     950.00     SASB       LNR Partners     757.97     -     757.97     C-III     729.48     -     729.48     VERT     9,531.39       Seer / LNR     1,302.47     -     1,302.47     Aegon     -     417.50     417.50     HRZ     12,904.63       Ready Capital     399.21     -     399.21     -     399.21     -     1,202.43       RR Holders>     -     22,436.02     22,436.02     -     -     -     -     -							-						8 <b>29</b>
Argentic         1,647.23         -         1,647.23         CBRE         -         -         -         -         SASB           LOANCORE         1,472.73         -         1,472.73         -         1,472.73         Wells Fargo         -         950.00         950.00         950.00         950.00         SASB           LNR Partners         757.97         -         1,302.47         -         1,302.47         Aegon         -         417.50         417.50         HRZ         12,904.63           3650 REIT         829.25         -         829.25         -         829.25         -		. mile		[]			-				20,011		23
LoanCore         1,472.73         -         1,472.73         Wells Fargo         -         950.00         950.00         SASB           LNR Partners         757.97         -         757.97         C-III         729.48         -         729.48         VERT         9,531.39           Seer / LNR         1,302.47         -         1,302.47         Aegon         -         417.50         417.50         HRZ         12,904.63           3650 REIT         829.25         -         829.25         -         829.25         L         -         L         -           Ready Capital         399.21         -         399.21         -         399.21         -         22,436.02         -         22,436.02         -         22,436.02         -								-, .03.33	-, .05.55				
LNR Partners     757.97     -     757.97     C-III     729.48     -     729.48     VERT     9,531.39       Seer / LNR     1,302.47     -     1,302.47     Aegon     -     417.50     417.50     HRZ     12,904.63       3650 REIT     829.25     -     829.25     -     -     -     -     L     -       Ready Capital     399.21     -     399.21     -     399.21     -     22,436.02       RR Holders>     -     22,436.02     -     22,436.02     -     -     -     -     -     -							-	950.00	950.00		_		
3650 REIT 829.25 - 829.25 <u>L -</u> Ready Capital 399.21 - 399.21 - 399.21 - 22,436.02 RR Holders> - 22,436.02 - 24,436.02	LNR Partne		757.97	-	757.97	C-III	729.48	-	729.48	VERT			27
Ready Capital       399.21       - 399.21       22,436.02         RR Holders>       - 22,436.02       - 22,436.02       - 22,436.02				-		Aegon	-	417.50	417.50		12,90	1.63	21
RR Holders> 22,436.02 22,436.02		ital		-			-	-	-	<del></del> _	20.40	-	-
			399.21	22 436 02							22,436	.02	48
Total 26,011.06 22,436.02 48,447.08 26,011.06 22,436.02 48,447.08 48,447.08	Total	y-	26,011.06	22,436.02 22,436.02	48,447.08		26,011.06	22,436.02	48,447.08		48.447	.08	

Pricing AMOUNT SERVICER SPSERV B-PIECE #PROP



# SECURITIZED MARKETS - 2019 FHLMC Issuance

		SERIES	Pricing	AMOUNT	SERVICER	SPSERV	B-PIECE	#PROP	#LOAN
	7 -Year	FREMF 2019-K734	04/11/19	1,600.43	Wells Fargo	Wells Fargo	Bridge	52	52
-		FREMF 2019-K735	07/17/19	1,410.94	Wells Fargo	Wells Fargo	Bridge	49	49
-	10-Year	FREMF 2019-K87	01/23/19	1,298.34	Wells Fargo	Wells Fargo	Bridge	65	65
	20	FREMF 2019-K88	03/01/19	1,444.26	Midland	CWCAM	Morgan Prop	64	64
		FREMF 2019-K89	03/12/19	1,488.68	Wells Fargo	Wells Fargo	NYMT	61	61
		FREMF 2019-K90	04/03/19	1,393.56	KeyBank	Wells Fargo	Berkshire Group	57	57
		FREMF 2019-K91	04/17/19	1,384.76	KeyBank	KeyBank	RREEF America	79	80
		FREMF 2019-K92	05/21/19	1,463.35	Wells Fargo	Wells Fargo	Bridge	63	63
		FREMF 2019-K93	06/13/19	1,439.48	Midland Loan Services	KeyBank	Berkshire Group	59	59
								59 69	65
		FREMF 2019-K94	07/09/19	1,330.28	Wells Fargo	Wells Fargo	Morgan Prop		
		FREMF 2019-K95 FREMF 2019-K96	08/01/19 08/13/19	1,266.54 1,376.21	Wells Fargo Wells Fargo	Wells Fargo Wells Fargo	NYMT Bridge	53 59	53 59
				,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,					
	15-Year	FREMF 2019-K1510	02/20/19	814.10	Wells Fargo	Wells Fargo	NYMT	45	45
		FREMF 2019-K1511	05/08/19	871.02	Midland Loan Services	Midland	Related Cos.	41	41
-		FREMF 2019-K1512	07/22/19	754.69	KeyBank	KeyBank	Priderock	24	24
-	Floater	FREMF 2019-KF57	02/06/19	1,122.64	KeyBank	CWCAM	Kayne Anderson	42	42
	loatei	FREMF 2019-KF58	02/20/19	1,088.32	Midland	CWCAM	Kayne Anderson	41	41
		FREMF 2019-KF59	03/06/19	930.56	KeyBank	CWCAM	Blackstone	40	40
		FREMF 2019-KF60	03/19/19	1,009.24	Midland Loan Services	Wells Fargo	NexPoint Advisors	40 45	45
		FREMF 2019-KF61	05/09/19	999.32	Wells Fargo	KeyBank	Priderock	33	33
		FREMF 2019-KF62	05/21/19	890.57	KeyBank	KeyBank	Harbor	38	38
		FREMF 2019-KF63	06/18/19	856.78	Wells Fargo	CWCAM	Kayne Anderson	36	36
		FREMF 2019-KF64	07/23/19	770.86	KeyBank	CWCAM	Blackstone	26	26
		FREMF 2019-KF65	08/07/19	831.93	KeyBank	CWCAM	Related Cos.	26	26
-		FREMF 2019-KF66	08/14/19	853.62	Midland Loan Services	CWCAM	Kayne Anderson	30	30
-	Jr Lien	FREMF 2019-KJ24	06/24/19	300.90	Freddie Mac	KeyBank	Harbor	69	70
-	Small Bal	FRESB 2019-SB58	01/10/19	622.47	Freddie Mac	KeyBank	Tilden Park	238	238
	J	FRESB 2019-SB59	02/13/19	625.27	Freddie Mac	LNR Partners	Axonic Capital	244	244
		FRESB 2019-SB60	03/14/19	624.67	Freddie Mac	Situs	Sabal Financial	226	226
		FRESB 2019-SB61	04/11/19	614.63	Freddie Mac	KeyBank	Axonic Capital	223	223
					Freddie Mac				
		FRESB 2019-SB62	05/16/19	623.42		KeyBank	Tolis Advisors	210	210
		FRESB 2019-SB63	06/12/19	530.37	Freddie Mac	Newmark	Sabal Financial	187	187
		FRESB 2019-SB64 FRESB 2019-SB65	07/11/19 08/15/19	442.62 617.22	Freddie Mac Freddie Mac	KeyBank KeyBank	Tilden Park Axonic Capital	163 219	163 219
							•	-	
	Wkforce	FREMF 2019-KW08 FREMF 2019-KW09	03/20/19	652.77	Midland Midland	Wells Fargo CWCAM	Bridge	27	27
-		FREMF 2019-KW09	07/26/19	626.81	міціапо	CWCAM	Morgan Prop	43	43
-	SASB	FREMF 2019-KBF3	01/23/19	745.86	Wells Fargo	Wells Fargo	Bridge	23	23
-	Large	FREMF 2019-KL04	01/17/19	702.38	Wells Fargo	KeyBank	Connor / Ares	22	22
-		FREMF 2019-KL05	08/06/19	1,073.98	Midland	KeyBank	Axonic / Harbor	22	22
-	Prepay	FREMF 2019-KC03	01/24/19	774.50	KeyBank	KeyBank	RREEF America	24	24
		FREMF 2019-KC04	06/05/19	560.32	Midland	CWCAM	Blackstone	17	17
-		FREMIT 2019-NC04	00/05/13	300.32	MIUIAIIU	CVVCAIVI	DIACKSTOTIE	11	1/
-	Misc	BOC 2019-Q010	07/25/19	573.34	Freddie Mac	Situs	Not Identified	168	168
		FREMF 2019-KG01	06/18/19	483.70	Midland Loan Services	KeyBank	Bayview	19	19
		FREMF 2019-KI04	08/08/19	532.69	Freddie Mac	CWCAM	Kayne Anderson	18	18
							•		
		FREMF 2019-KLU1	06/05/19	716.93	Freddie Mac	CWCAM	Greystar	16	16
		FREMF 2019-KS11	08/09/19	438.11	Wells Fargo	Wells Fargo	Bridge	42	2
		FREMF 2015-N311	06/05/15	430.11	WellsTargo	Wells Largo	MF1 REIT	72	22

47 42,136.3

Subordinate Buyer	Deals	Deal Balance			
Bridge	8	8,986.00	Not Identified	1	573.34
Kayne Anderson	5	4,454.05	MF1 REIT	1	562.92
NYMT	3	3,569.32	Bayview	1	483.70
Morgan Prop	3	3,401.36		-	
Berkshire Group	2	2,833.04		-	
Blackstone	3	2,261.73		-	-
RREEF America	2	2,159.26		-	
Axonic Capital	3	1,857.12	Total	47	42,136.32
Priderock	2	1,754.00			
Related Cos.	2	1,702.95			
Harbor	2	1,191.46	Spec Svc	Deals	Deal Balance
Sabal Financial	2	1,155.03	Wells Fargo	14	16,288.40
Axonic / Harbor	1	1,073.98	KeyBank	16	12,287.56
Tilden Park	2	1,065.10	CWCAM	12	10,335.71
NexPoint Advisors	1	1,009.24	Situs	2	1,198.00
Greystar	1	716.93	Midland	1	871.02
Connor / Ares	1	702.38	LNR Partners	1	625.27
Tolis Advisors	1	623.42	Newmark	1	530.37
				47	42,136.32



# SECURITIZED MARKETS - CLO Issuance

SERIES

Year	ISSUER	SERIES	DATE	AMOUNT	SELLEK	SERVICER	COLMGR
2018	VMC Finance LLC	2018-FL1	01/26/18	368.09	Varde Partners	Trimont	Varde Partners
2018	TPG Real Estate Finance	2018-FL1	02/05/18	932.38	TPG	Wells Fargo	TPG
2018	Bridge Debt Strategies	2018-FL1	02/13/18	510.23	Bridge	Wells Fargo	Bridge
2018	AREIT Trust	2018-CRE1	02/14/18	480.38	Silverpeak	Wells Fargo	Silverpeak
2018	Bancorp Commercial Mortgage Trust	2018-CRE3	03/13/18	304.27	Bancorp Bank	Wells Fargo	Bancorp Bank
2018	BSPRT Ltd.	2018-FL3	03/23/18	610.00	Benefit Street	Situs	Benefit Street
2018	GPMT Ltd.	2018-FL1	04/26/18	826.57	Granite Point	Wells Fargo	Granite Point Mtg
2018	LoanCore Ltd.	2018-CRE1	05/18/18	1,052.91	LoanCore Capital	Situs	LoanCore Capital
2018	Arbor Realty Commercial Ltd.	2018-FL1	05/23/18	560.00	Arbor Realty	Arbor	Arbor Realty
2018	Exantas Capital Corp.	2018-RSO6	06/07/18	514.23	RCC Real Estate	C-III	Exantas Capital
2018	Ready Capital Mortgage Financing LLC	2018-FL2	06/15/18	278.28	ReadyCap	KeyBank	ReadyCap
2018	Marathon CRE Ltd	2018-FL1	06/22/18	470.00	Marathon Asset Mgt	KeyBank	Marathon Asset Mgt
2018	M360 Ltd.	2018-CRE1	07/18/18	329.74	M360 Advisors	Wells Fargo	M360 Advisors
2018	Shelter Growth CRE Ltd.	2018-FL1	07/20/18	415.13	Shelter Growth Cap	Wells Fargo	Shelter Growth
2018	BDS Ltd.	2018-FL2	07/25/18	420.02	Bridge Investment	Wells Fargo	Bridge Investment
2018	Hunt CRE Ltd.	2018-FL2	08/03/18	285.00	Hunt Mortgage	KeyBank	Hunt Mortgage
2018	Greystone Commercial Ltd	2018-HC1	09/11/18	300.00	Greystone	Greystone	Greystone
2018	Bancorp Commercial Mortgage Trust	2018-CRE4	09/17/18	341.00	Bancorp Bank	Wells Fargo	Bancorp Bank
2018	BSPRT Ltd.	2018-FL4	09/27/18	868.40	Benefit Street	Situs	Benefit Street
2018	VMC Finance LLC	2018-FL2	10/19/18	462.30	VMC Lender	Trimont	Varde Partners
2018	AREIT Trust	2018-CRE2	10/30/18	596.31	Silverpeak	Wells Fargo	Silverpeak
2018	KREF Ltd.	2018-FL1	11/07/18	1,000.00	KKR	Midland	KKR
2018	TRTX Ltd.	2018-FL2	11/15/18	1,000.17	TPG Real Estate	Situs	TPG Real Estate
2018	OREC Ltd.	2018-CRE1	11/20/18	350.00	ORIX	RED Mtg Capital	ORIX
2018	FORT CRE LLC	2018-CKE1	11/28/18	600.00	Fortress	Wells Fargo	Fortress
	Year to Date	2010-1	11/26/16	13,875.40	Fortiess	Wells raigo	roitiess
2010	rear to bate			13,013.40			
2019	BDS Ltd.	2019-FL3	01/28/19	600.00	Bridge Investment	Wells Fargo	Bridge Investment
2019	GPMT Ltd.	2019-FL2	02/14/19	825.00	Granite Point	Wells Fargo	Granite Point
2019	NLY Ltd.	2019-FL2	02/14/19	857.30	Annaly	Trimont	Annaly
2019	Bancorp Commercial Mortgage Trust	2019-CRE5	03/08/19	518.30	Bancorp Bank	KeyBank	Bancorp Bank
2019	LMREC LLC	2019-CRE3	03/06/19	500.00	-	-	LaSalle Mtg Real Est
			, ,		LaSalle Mtg Real Est	Northmarq	<u> </u>
2019	Ready Capital Mortgage Financing LLC	2019-FL3 2019-RSO7	03/29/19	320.80	ReadyCap Exantas	KeyBank	ReadyCap
2019	Exantas Capital Corp.		04/04/19	687.20		C-III	Exantas
2019	PFP Ltd.	2019-5	04/11/19	764.20	Prime Finance	Wells Fargo	Prime Finance
2019	LoanCore Ltd.	2019-CRE2	05/07/19	1,057.23	LoanCore Capital	Situs	LoanCore Capital
2019	Arbor Realty Commercial Real Estate Notes Ltd.	2019-FL1	05/14/19	650.00	Arbor Realty	Arbor Multifamily	Arbor Realty
2019	Grand Avenue CRE Ltd.	2019-FL1	05/16/19	625.00	DoubleLine Capital	Wells Fargo	DoubleLine Capital
2019	BSPRT Ltd.	2019-FL5	05/20/19	810.00	Benefit Street	Situs	Benefit Street
2019	Shelter Growth CRE Ltd.	2019-FL2	05/21/19	453.70	Shelter Growth	Situs	Shelter Growth
2019	LoanCore Ltd.	2019-CRE3	05/23/19	415.85	LoanCore Capital	Situs	LoanCore Capital
2019	BDS Ltd.	2019-FL4	07/17/19	525.00	Bridge Investment	Wells Fargo	Bridge Investment
2019	STWD Ltd.	2019-FL1	07/26/19	1,100.00	Starwood Property	Wells Fargo	Starwood Property
2019	A10 Bridge Asset Financing LLC	2019-B	07/29/19	320.00	A10 Capital	A10 Capital	A10 Capital
2019	AREIT Trust	2019-CRE3	08/09/19	717.92	Argentic	Wells Fargo	Argentic
2019	M360 Ltd.	2019-CRE2	08/14/19	360.00	M360 Advisors	Wells Fargo	M360 Advisors
2019	Greystone CRE Notes Ltd.	2019-FL2	08/14/19	600.00	Greystone	Greystone Servicing	Greystone
2019 -	Year to Date			12,707.49			

DATE

AMOUNT

**SELLER** 

SERVICER

COLMGR



### **SOURCES**

The third-party Information set forth herein is derived from the following sources:

- Bloomberg
- CBRE Capital Markets
- Citibank Research
- Commercial Mortgage Alert
- CRE Direct
- FHLMC.
- Intex Solutions
- Maximus Ten-X
- Morningstar Research
- Moody's / RCA CPPI
- National Center for Education Statistics
- National Real Estate Investor
- Real Capital Analytics
- REIS
- Trepp Information Systems
- US Bureau of Labor Statistics
- US Census Bureau
- US Federal Reserve
- US Treasury
- Wells Fargo Research

We do not make any representation regarding the accuracy or completeness of the information contained herein. In addition, the information contained herein may include forward-looking statements. Actual events are difficult to predict, may differ from those assumed herein, and will be beyond our control. Any forward-looking statement included herein is based on information available on the date hereof and we do not assume any duty to update any such statement. Some important factors which could cause actual results to differ materially from those in any forward-looking statements include the actual defaults on the collateral, the timing of any defaults and subsequent recoveries, changes in interest rates and any weakening of the specific credits included in the collateral, among others. The information contained herein is for informational purposes only and does not constitute a solicitation to buy, sell, or take any investment action, nor should it be considered investment, legal, regulatory, accounting or tax advice. Please consult with legal, tax, accounting, or other necessary professionals prior to entering into any transaction based on the information contained herein. Investment decisions made by you based on this information may not always be profitable.