Wall Street and Commercial Real Estate

Everett (Allen) Greer, MAI, FRICS, AI-GRS Greer Advisors, LLC

May 5, 2017 – Union Bank – The Private Bank

Goals of Presentation

- New News!
- Market Drivers
- Capital Markets REITs/CMBS
- Real Estate Performance
- Conclusions

Note: PPT Deck will be posted to <u>www.GreerAdvisors.com</u>

Most information is updated via Newsletter, sign up on web site.

Market Drivers

Supply / Demand / Financing

Supply / Demand - Drives Vacancy (1) & Rents (2)

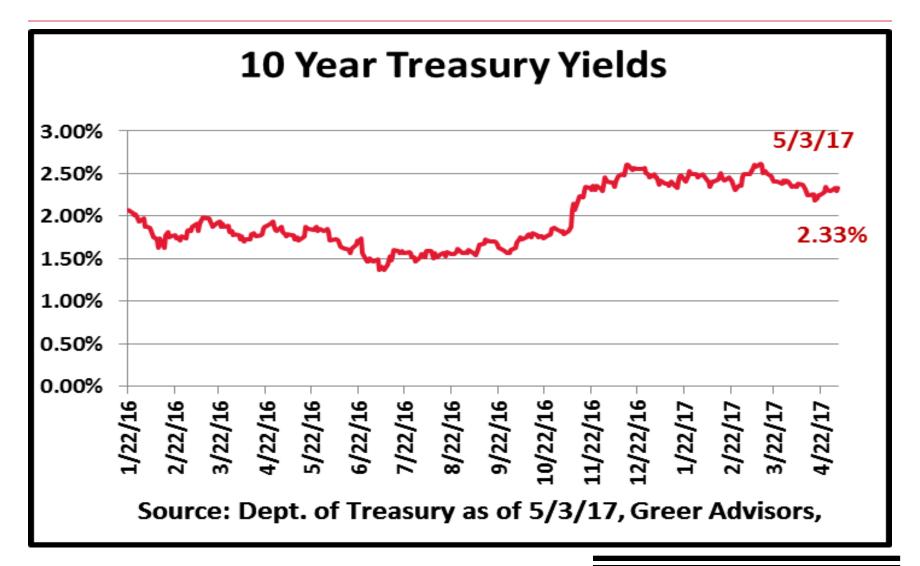
- Most Demand ties to Jobs Results Impact Rent & Vacancy
 - Office FIRE Employment, Portion of Service Employment
 - Retail Household (HH) Formations, Income Growth
 - Industrial Manufacturing & Distribution (Logistics)
 - Multifamily HH Formations, non-Top 25% HH Income
 - Hotel Corporate Travel Office & Industrial Employment

Financing – DRIVES VALUE!

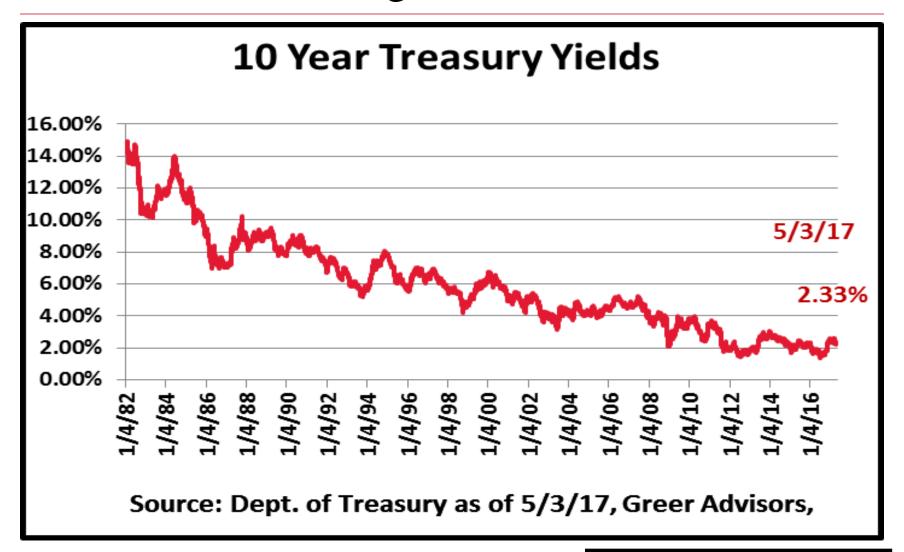
- Availability
- Rate and Term
- Leverage
- Recourse
- International Investment ** New

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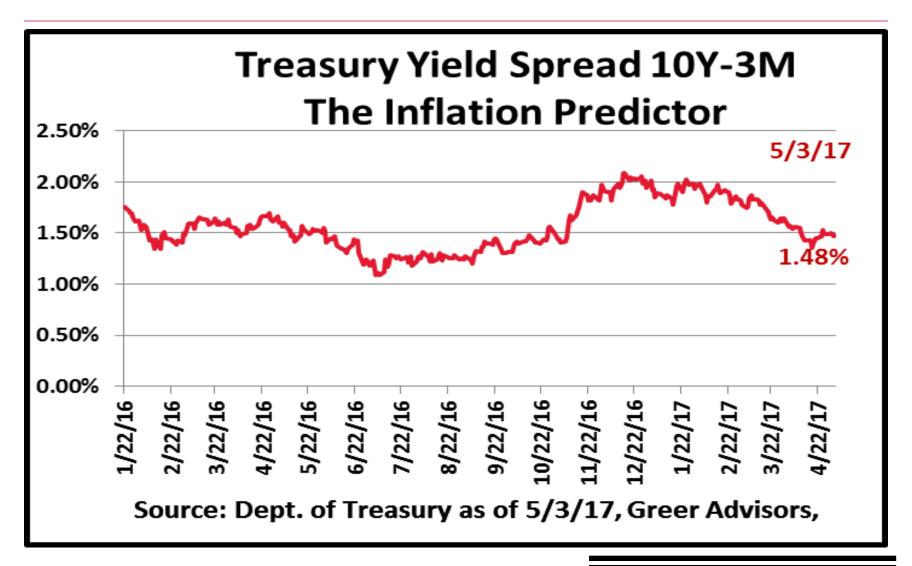
Interest Rate – Short Term View



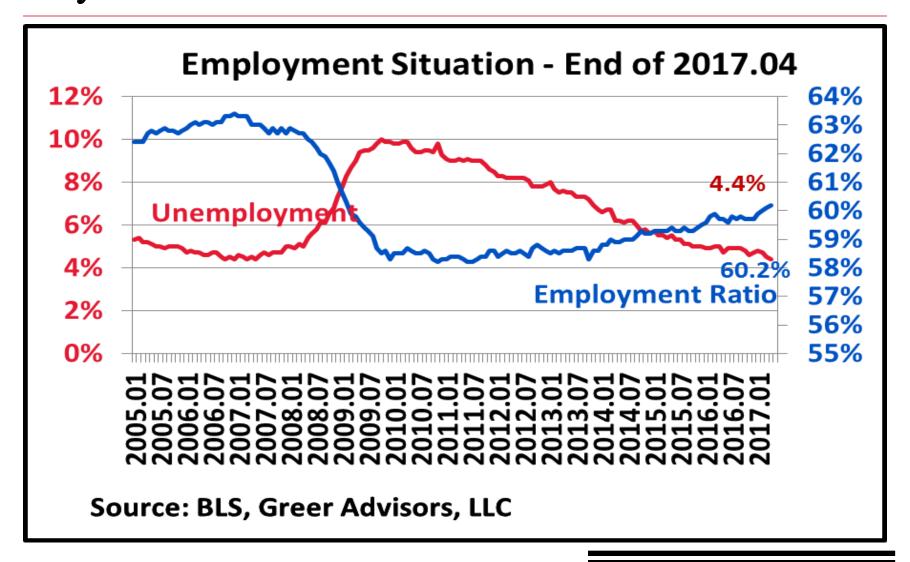
Interest Rates – Long Term View



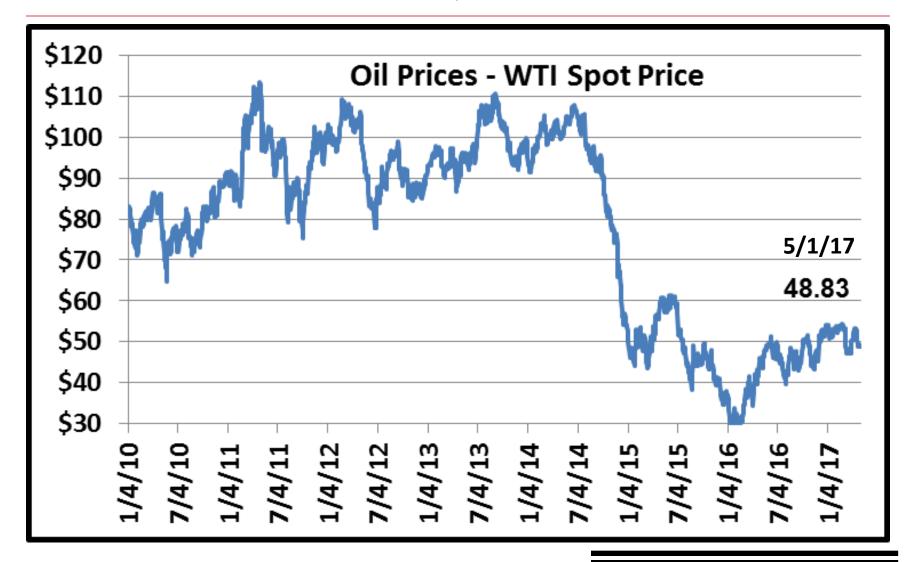
Inflation



Key Economic Indicators

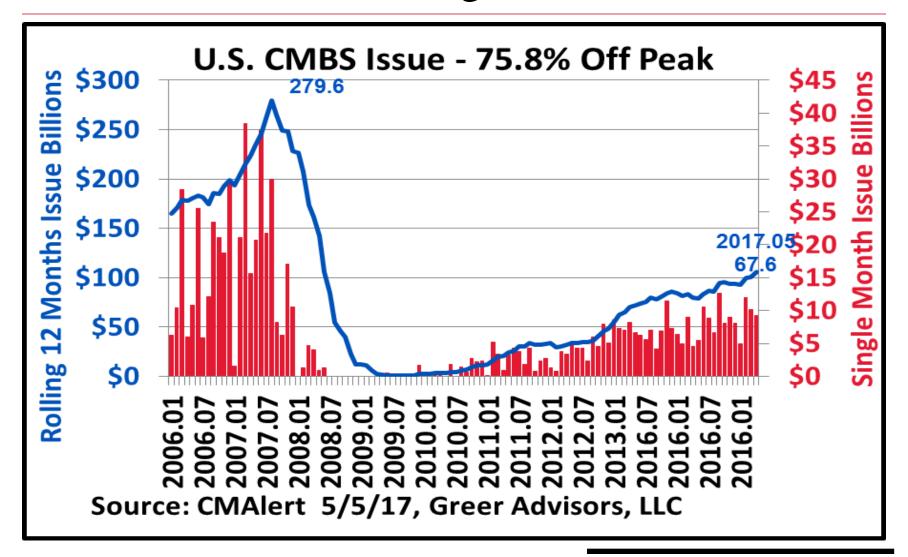


Oil Prices Remain Low, EIA as of 5/1/2017

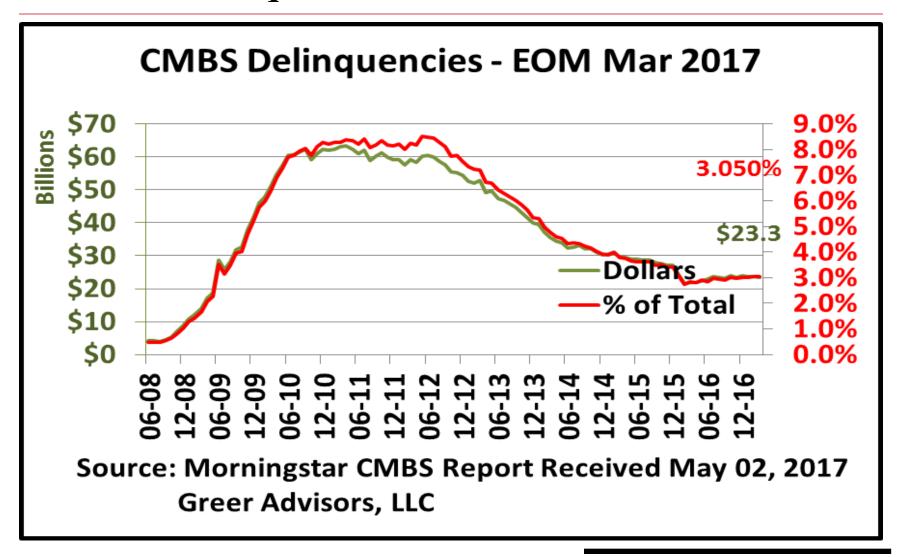


Real Estate Capital Markets

CMBS Issuance - Rising from Floor



CMBS Delinquencies – Rise, Fall & Stabilize



CMBS Delinquencies by Property Type

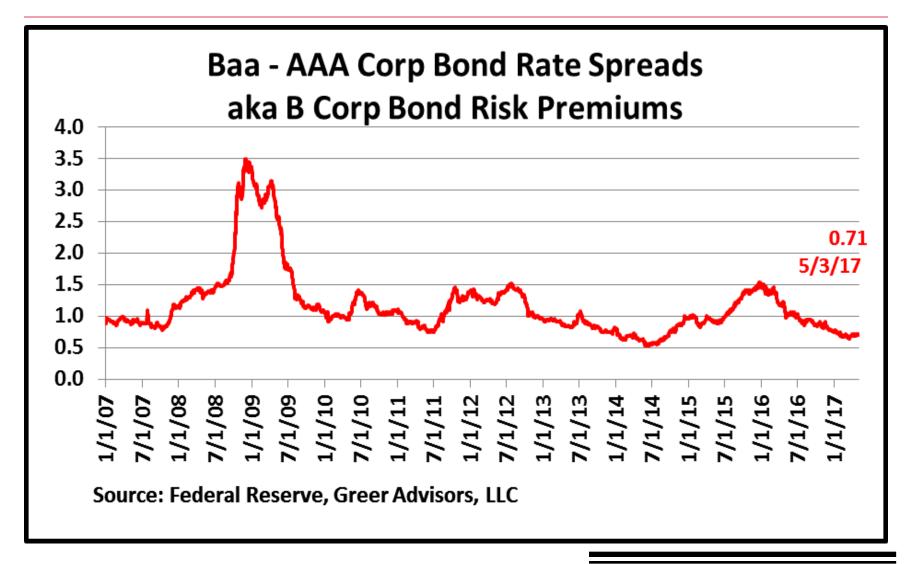
Trailing 12-N	/lonth	Delir	nquen	cy by	Prop	erty T	ype					
Property Type	4/16	5/16	6/16	7/16	8/16	9/16	10/16	11/16	12/16	1/17	2/17	3/17
Healthcare	2.49	2.46	2.44	2.50	2.51	2.54	2.57	2.19	1.96	1.98	2.01	2.03
Hotel	2.70	2.78	3.02	2.89	3.00	3.12	3.29	3.23	2.99	3.00	2.99	3.49
Industrial	4.28	4.40	4.43	4.32	4.67	4.59	4.79	4.55	4.64	4.91	4.88	5.56
Multifamily	0.61	0.65	0.59	0.58	0.57	0.53	0.55	0.45	0.44	0.56	0.50	0.43
Office	4.98	5.39	5.44	5.98	5.72	5.69	5.79	6.02	6.24	6.33	6.71	6.61
Other	2.61	2.52	2.49	2.75	2.57	2.58	2.72	2.76	2.68	2.76	3.01	3.35
Retail	4.97	4.99	5.11	5.27	5.47	5.38	5.77	5.68	5.78	5.58	5.52	5.72
Source: Morn	ingstaı	r Credi	t Ratir	igs, LL	C							

CMBS Delinquencies by Year – Worst 10

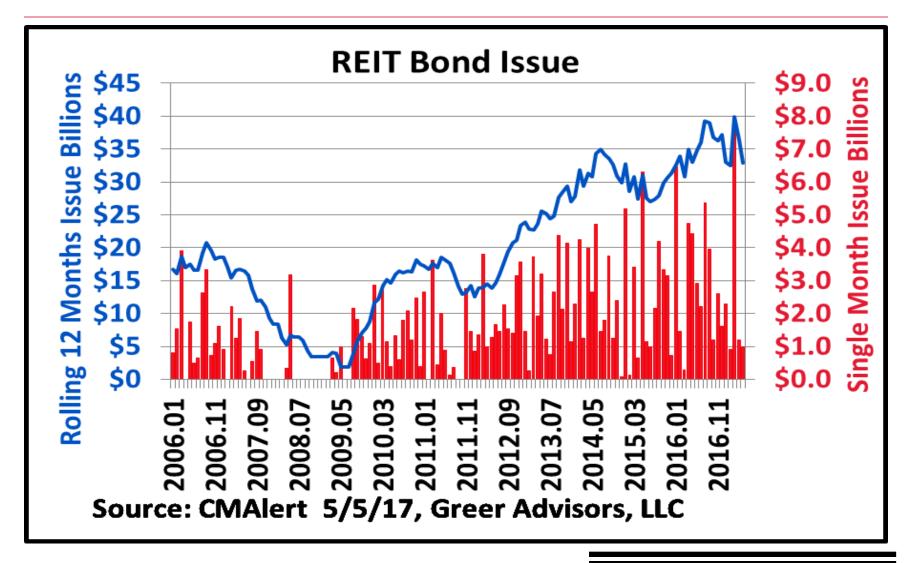
Delinquency	by Year of Iss	suance - \	Norst 10 Yea	rs
Year	\$ Total Year	# Loans	% CMBS Univ.	% Delinq.
2006 Total	7,739,594,583	558	0.99	35.35
2007 Total	7,432,197,673	470	0.95	33.95
2005 Total	3,746,172,677	278	0.48	17.11
2004 Total	1,079,616,740	98	0.14	4.93
2008 Total	313,147,193	30	0.04	1.43
2014 Total	223,323,831	34	0.03	1.02
2012 Total	219,687,943	30	0.03	1.00
2013 Total	218,084,562	35	0.03	1.00
2001 Total	184,107,289	11	0.02	0.84
2003 Total	168,485,542	30	0.02	0.77
Top 10 Totals	21,324,418,033	1,574	2.73	97.40
Source: Mornin	gstar Credit Ratings	s, LLC		

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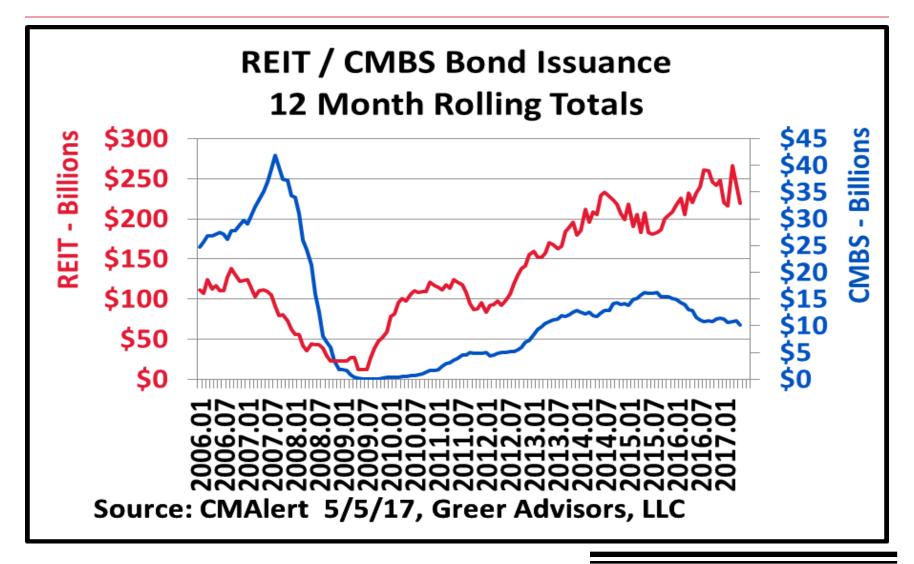
RISK PREMIUM



REIT Bond Issuance – Continued Growth



REIT Bond Issuance – Continued Growth



Real Estate Market Performance

National & Los Angeles – Office Trends

National Office Market Statistics* LA Total Office Market Statistics Existing Inventory Existing Inventory Vacancy 0 uo ted Vacancy 0 uo ted Period # Blds TotalRBA DirectSF TotalSF Period # B lds TotalRBA DirectSF TotalSF Vac % Rates Vac % Rates 795,949,538 433,599,841 2017 1g 331,080 8,027,478,648 840,327,751 10.5% \$26.52 2017 la 18,137 45,643,806 47,484,828 11.0% \$34.15 8,011,634,530 2016 4a 330,897 793,445,033 834,564,279 10.4% \$2634 2016 4a 18,135 432,601,077 43,637,503 45,088,583 10.4% \$33.49 796,852,041 432,472,159 45,548,560 10.5% 2016 3a 330,662 7,996,944,301 836,637,217 10.5% \$26.01 2016.3a 18,126 44,216,665 \$32.79 2016 2q 330,432 7,982,872,328 808,733,310 845,927,938 10.6% \$25.55 2016 2a 18,116 431,372,034 44,538,168 45,930,398 10.6% \$3224 823,650,569 860,374,954 431,398,033 47,281,946 2016 lq 330,330 7,973,831,457 10.8% \$25.32 2016 1q 18,112 45,811,048 11Ω% \$32.05 822,193,621 2015 7,962,583,075 857,921,522 10.8% \$2527 2015 18,106 431,162,000 46,456,172 47.669.160 11,1% \$3159 330,171 862.445.978 2014 329,609 7,909,659,983 896,528,066 11.3% \$24.42 2014 18,070 429,890,752 48,108,315 49,070,718 11.4% \$3027 2013 329,151 7,875,399,601 909,336,353 944,455,899 12.0% \$23.65 2013 18,071 430,140,688 51,265,081 52,673,690 12.2% \$29.19 2012 328,666 7.846.470.505 933,578,474 971224.903 12.4% \$23.13 2012 18,037 429,000,458 51721934 53,160,591 12.4% \$28.31 2011 328,162 7,825,251,905 962,603,368 1,003,903,179 12.8% 2011 18,018 428,271,537 52,496,037 54,451,095 12.7% \$27.98 \$22.95 2010 327,598 7,803,108,432 977,924,569 1,026,946,263 13.2% \$23.14 2010 17,999 427,780,123 51,371,105 54,015,806 12.6% \$27.75 2009 326,664 7,761,171,881 945,144,725 1,008,377,211 13 0% \$23.30 2009 17,965 426,947,210 46,988,265 50,738,953 11.9% \$28.62 2008 324,620 7,670,361,722 824,125,250 883,081,454 11.5% \$25.00 2008 17,856 423,532,215 37,632,143 41,533,263 9.8% \$3123 743,206,400 420,677,483 2007 320,741 7,554,067,540 795,594,382 10.5% \$24.88 2007 17,677 29,548,023 32,299,961 7.7% \$3107 719,528,413 419.426.392 2006 315,929 7,439,132,284 775,168,737 10.4% \$23.39 2006 17,602 29.492.873 31,744,399 7.6% \$27.77 2005 311201 7.333.941.873 743,364,398 806.814.325 11.0% \$2224 2005 17.540 417.429.371 31,719,835 34.178.504 8 2% \$25.52

Source:CoStarProperty®

Source:CoStarProperty® *Selectmarketsincluded in this historical chart-seeMethodology page.

Los Angeles – Office Submarket

LA Total Office Market Statistics

First Quarter 2017

	E xis ting	g Inventory		Q uo ted		
M arket	# B lds	TotalRBA	DimectSF	TotalSF	Vac %	Rates
Antebpe Valley	370	4,125,597	502,840	502,840	12 2%	\$20.06
Burbank/G endae/P asadena	3,090	55 , 987 , 438	4,439,881	4,645,739	8.3%	\$31.63
Downtown Los Angeles	709	70,886,887	8 , 720 , 298	8 , 987 , 226	12.7%	\$37.04
M id-C ities	1,057	10,714,822	1,159,266	1 , 182 , 193	11.0%	\$25.58
Mid-Wilshire	1,624	40,763,707	4,867,861	4,940,112	12.1%	\$37.53
San Femando Valley	1,490	36,076,580	3,606,947	3,654,289	10.1%	\$27.33
San GabrelValley	2,034	30,536,110	2,622,003	2 , 693 , 412	8.88	\$24.92
Santa C larita Valley	215	4,764,984	453 , 708	493 , 603	10.4%	\$29.81
South B ay	2,529	64,487,447	7,332,213	7,644,181	11.9%	\$28.07
SoutheastLos Angeles	623	8 , 666 , 260	524,773	557,581	6.4%	\$ 22 17
Ventura North	823	8,304,945	984 , 164	988,884	11.9%	\$21.13
Ventura South	1,006	21,908,420	2,518,142	2,569,453	11.7%	\$26.44
W estLos Angeles	2,567	76,376,644	7,911,710	8,625,315	11.3%	\$ 53 16
To tals	18 ,13 7	433,599,841	45,643,806	47 ,484 ,828	11.0%	\$ 34 .15
Source:CoStarProperty®						

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National & Los Angeles – Retail Trends

	E xis ting	Inventory		Vacancy		Q uo ted		Existing	Inventory		Vacancy		Q uo ted
Period	# B kds	TotalGLA	DirectSF	TotalSF	Vac %	Rates	Perio d	# B lds	TotalGLA	DirectSF	TotalSF	Vac %	Rates
2017 1q	912 , 967	10,527,707,796	500,238,662	516,512,129	4.9%	\$ 16.70	2017 1q	47,602	472,873,082	18,059,185	19,330,926	4.1%	\$29
2016 4q	912,182	10,513,377,490	501,865,303	517,595,746	4.9%	\$ 16.41	2016 4q	47,588	471,924,551	17,442,141	18,733,760	4 Д%	\$28
2016 3q	911,286	10,498,097,443	509,455,339	525,028,972	5.0%	\$16.31	2016 3q	47,574	471,816,465	18,076,343	19,142,838	4.1%	\$28
2016 2q	910,395	10,482,779,217	526,945,413	543,316,826	52%	\$ 16.11	2016 2q	47,559	471,692,596	18,433,845	19,428,275	4.1%	\$28
2016 1q	909,690	10,468,490,952	547,653,117	565,442,783	5.4%	\$ 15 94	2016 lq	47,528	471,035,514	19,203,836	20,531,183	4.4%	\$27
2015 4q	908,847	10,458,326,995	551,281,884	570,837,021	5.5%	\$ 15 .86	2015 4q	47,521	472,109,952	20,770,924	22,224,762	4.7%	\$26
2015 3q	907,959	10,438,874,873	561,218,118	578,194,361	5.5%	\$ 15.79	2015 3q	47,502	471,235,696	20,080,319	20,814,899	4.4%	\$26
2015 2q	907,305	10,423,823,180	575,012,749	592,545,835	5.7%	\$ 15 .68	2015 2q	47,489	470,531,471	20,282,342	21,041,122	4 5%	\$25
2015 1q	906,870	10,414,770,582	588,043,802	605,979,351	5.8%	\$ 15 .57	2015 lq	47,480	470,225,873	20,659,550	21,313,440	4 5%	\$25
2014	906,234	10,401,176,166	590,264,330	608,257,029	5.8%	\$15.51	2014	47,466	470,047,010	20,751,817	21,514,771	4.6%	\$25
2013	903,822	10,352,522,928	648,794,728	668,201,408	6.5%	\$ 15 22	2013	47,412	469,853,723	23,335,305	24,224,736	5 2%	\$24
2012	901,289	10,309,814,700	682,041,476	703,209,934	6.8%	\$ 14 97	2012	47,365	469,101,355	25,108,249	26,028,562	5.5%	\$24
2011	898,788	10,267,693,985	702,753,245	725,059,849	7.1%	\$ 15 ,11	2011	47,323	468,298,073	23,997,359	24,921,868	5.3%	\$24
2010	896,405	10,225,448,407	716,916,393	741,197,232	7 2%	\$ 15 43	2010	47,283	467,054,625	24,661,931	25,791,878	5.5%	\$24
2009	893 , 655	10,176,692,460	723,197,094	753,686,375	7.4%	\$ 16 32	2009	47,204	465,312,998	24,582,776	26,388,993	5.7%	\$26
2008	888,517	10,077,276,662	630,720,388	659,002,446	6.5%	\$ 17.35	2008	47,081	463,067,984	20,099,771	21,001,485	4.5%	\$28

Los Angeles – Retail Submarket

Total Retail	Marke	Market Statistics			First Quarter 20				
	E xis ting	g Inventory		Vacancy		Q uo ted			
M arket	# B kds	TotalGLA	DirectSF	TotalSF	Vac %	Rates			
Antebpe Valley	1 , 148	16,034,483	1 , 170 , 902	1,218,550	7.6%	\$ 14.98			
B urbank/G lendale/P asadena	6,451	52,574,783	1,276,664	1,388,277	2.6%	\$36.90			
Downtown Los Angeles	2,074	24,348,577	1,093,951	1,119,474	4.6%	\$3158			
M id-C ities	5 , 735	48,504,170	2 , 147 , 127	2 , 179 , 921	4.5%	\$20.96			
M id-Wilshire	4,026	34,882,730	1,364,035	1,396,220	4.0%	\$4638			
San Femando Valley	4,648	50,561,665	1,782,332	2,085,645	4 1%	\$25.23			
San GabrelValley	5 , 639	62,059,993	2,549,502	2,605,908	4 2%	\$21.42			
Santa C larita Valley	746	12,664,431	595,228	598,445	4.7%	\$23.53			
South B ay	7,142	68,259,032	2,243,968	2,470,202	3.6%	\$25.45			
SoutheastLos Angeles	1 , 900	19,305,979	594,790	600,890	3.1%	\$20.19			
Ventura North	1,780	17,781,699	716,794	784,373	4.4%	\$20.59			
Ventura South	1 , 752	26,287,398	1,265,815	1 , 499 , 192	5.7%	\$24.46			
W estLos Angeles	4,561	39,608,142	1,258,077	1,383,829	3.5%	\$55.55			
To tals	47,602	472,873,082	18,059,185	19 ,330 ,926	4 .1%	\$ 29 .16			
Source:CoStarProperty®									

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National & Los Angeles – Industrial Trends

	E xis ting	Inventory		Vacancy		Q uo ted		E xis ting	Inventory		Vacancy		Q uo ted
P erio d	# B kds	TotalRBA	DirectSF	TotalSF	Vac %	Rates	Perio d	# B lds	TotalRBA	DimectSF	TotalSF	Vac %	Rates
2017 1q	427,096	15,352,286,091	798,832,483	829,379,273	5.4%	\$6.71	2017 1q	37,233	990,783,878	20,688,712	21,988,426	2.2%	\$9.
2016 4q	426,742	15,305,229,713	793,387,755	823,744,054	5.4%	\$6.61	2016 4q	37,225	988,573,794	19,891,711	21,280,441	2.2%	\$9.5
2016 3q	426,453	15,256,501,148	808,220,842	838,389,869	5.5%	\$6.54	2016 3q	37,220	988,711,688	20,825,720	22 , 124 , 770	2.2%	\$9.4
2016 2q	426,231	15,201,191,368	846,325,055	875 , 167 , 597	5.8%	\$6.44	2016 2q	37,213	988,026,995	20,933,690	22,185,844	2.2%	\$9.4
2016 1q	426,053	15,165,962,669	865,855,322	893,406,992	5.9%	\$635	2016 lq	37,206	987,677,770	21,673,312	23,281,246	2.4%	\$91
2015	425,800	15,127,045,209	880,475,206	906,372,055	6 D%	\$624	2015	37,198	987,036,054	20,363,704	21,511,640	2.2%	\$8.9
2014	425,168	14,994,475,327	992,670,510	1,017,989,213	6.8%	\$5.93	2014	37 , 184	985,138,019	29,017,005	30,421,207	3.1%	\$82
2013	424,783	14,895,570,563	1,129,167,014	1,156,311,071	7.8%	\$5.76	2013	37 , 182	983,914,936	42,224,973	43,746,101	4.4%	\$7.5
2012	424,490	14,847,385,168	1,259,285,592	1,295,514,747	8.7%	\$5.52	2012	37,180	981,759,132	46,506,622	48,588,475	4.9%	\$7.
2011	424,239	14,821,128,970	1,356,102,968	1,397,965,171	9.4%	\$5.42	2011	37 , 180	981,119,587	48,914,546	51 , 155 , 916	5 2%	\$6.8
2010	423,983	14,804,329,434	1,453,711,805	1,506,941,844	10 2%	\$5.47	2010	37 , 181	980,985,319	49,646,815	52,909,567	5.4%	\$69
2009	423,546	14,789,167,443	1,455,181,203	1,518,120,608	10.3%	\$5.76	2009	37,177	981,021,813	46,459,616	49,845,325	5.1%	\$7.5
2008	422 , 176	14,698,402,973	1,221,834,056	1,277,005,496	8.7%	\$630	2008	37, <u>122</u>	979,987,222	37,644,523	40,966,692	4 2%	\$8.6
2007	418,867	14,495,812,512	1,108,498,570	1,151,820,779	7.9%	\$622	2007	37,035	977,389,298	27,006,003	29,350,926	3.0%	\$8.6
2006	414,896	14,290,505,496	1,108,459,258	1,155,199,493	8 1%	\$601	2006	36,902	974,218,285	26,030,256	27,940,956	2.9%	\$7.7
2005	410,568	14,068,063,834	1,127,191,334	1,177,742,524	8.4%	\$5.79	2005	36,722	967,030,441	32,409,272	33,763,807	3.5%	\$7.

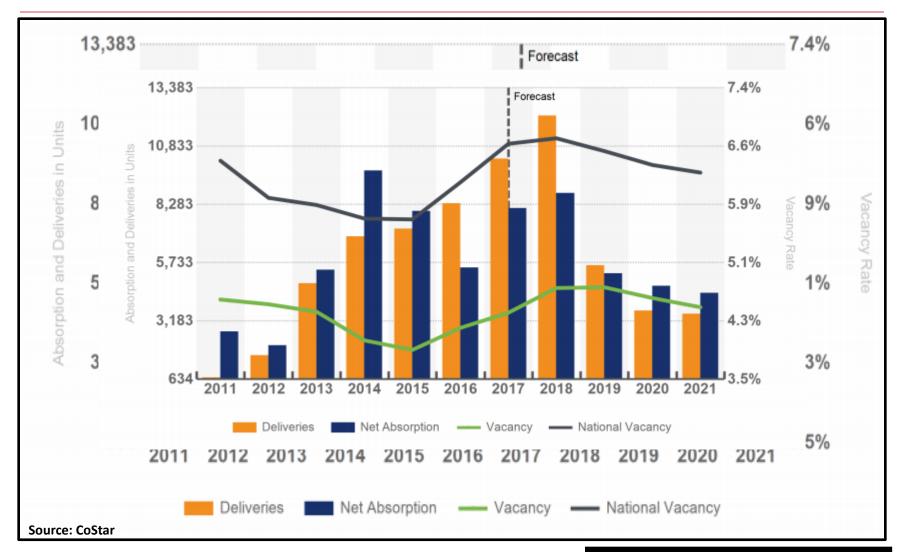
Los Angeles – Industrial Submarket

Total Indust	rial M	Market	Statis	tics	First Qua	rter 2017
	E xis ting	g Inventory		Vacancy		Q uo ted
M arket	# Blds	TotalRBA	DirectSF	TotalSF	Vac %	Rates
Antebpe Valley Ind	408	10,240,158	83,300	83,300	% ८००	\$820
Carson/Rancho Domingz Ind	1,240	75,063,474	1,162,078	1,260,038	1.7%	\$ 8 17
CentralLA Ind	4,958	94,321,500	3,277,111	3,400,822	3.6%	\$ 13 .68
Com m erce A rea Ind	1,692	76,277,123	1,311,878	1,393,316	1.8%	\$7.33
Conejo Valley Ind	838	23,885,457	542,090	561,123	2.3%	\$10.26
Eastern SGV Ind	1,096	27,519,359	303,170	309,595	1.1%	\$7.46
ElSegundo/HawthomeInd	963	25 , 417 , 733	352 , 263	387 , 683	1.5%	\$ 15 ,10
Gardena/110 Corridor Ind	1,676	36,472,423	842,158	870,571	2.4%	\$8.81
Long Beach Area Ind	1,682	29,585,340	215,023	238,229	0.8%	\$ 10 28
LowerSGV Ind	1,542	83,445,704	1,547,723	1,861,764	2 2%	\$8.06
Lynwood/Param ountInd	563	12,975,224	97,568	97,568	% ८ ०	\$7.97
MidCounties-LAInd	2 , 699	94,458,457	1,875,145	1,964,085	2 1%	\$ 8 .15
NorthwestSGV Ind	1,347	23 , 389 , 646	954,524	975 , 324	4 2%	\$ 10 ,14
SCV/Lancaster/Palm dale Ind	666	23,048,728	613,753	684,185	₹Q. E	\$8.69
SFV EastInd	4,990	82,205,569	1,349,443	1,373,943	1.7%	\$ 12 .64
SFV W estInd	1,964	46,503,888	957,233	1,070,363	2.3%	\$9.95
SouthwestSGV Ind	1,037	11,403,096	103,355	103,355	0.9%	\$ 10 .04
Tomance/Beach Cities Ind	1,049	36,956,294	761,786	816,010	2.2%	\$9.71
UpperSGV hd	1,258	26,295,162	505,019	615,185	2.3%	\$9.06
Ventura County Ind	2 , 168	49,903,479	1,644,897	1,661,663	3.3%	\$8.05
Vemon A rea Ind	2,209	82,383,454	1,787,308	1,844,217	2 2%	\$7.81
W estside Ind	1,188	19,032,610	401,887	416,087	2.2%	\$28.48
Totals	37,233	990 ,783 ,878	20 ,688 ,712	21,988,426	2 .2%	\$9.71
Source:CoStarProperty®						

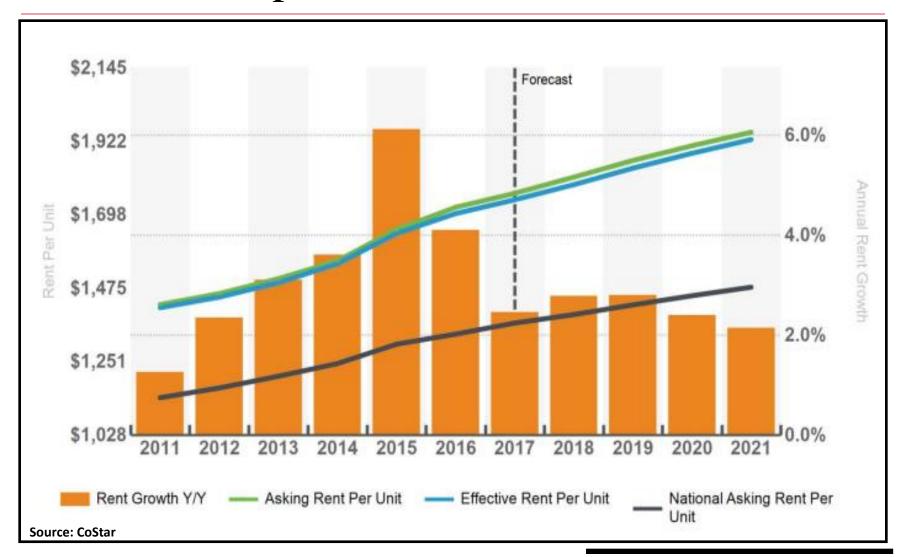
Then vs. Now -5 of 6 are UP

Natio	nal O	ffice	+	LA Of	fice		
	Vacancy	Q uo ted	RentPASF		Vacancy	Q uo ted	RentPASF
Period	Vac %	Rates	Occ% xRent\$	P e rio d	Vac %	Rates	Occ% xRent\$
2017 1q	10.5%	\$26.52	\$23.74	2017 lq	11.0%	\$ 34 .15	\$30.41
2007	10.5%	\$24.88	\$22.26	2007	7.7%	\$3107	\$28.68
ource:CoStarP	roperty® *Selectm a.	rketsincluded in thi	shistoricalchart-seeMethodo.	logy: Source:CoStarP.	roperty®		
Natio	onal Re	etail	*	LA Re	etail		
	Vacancy	Q uo ted	RentPASF		Vacancy	Q uo ted	RentPASF
Period	Vac %	Rates	Occ% xRent\$	P e rio d	Vac %	Rates	Occ% xRent\$
2017 1q	4.9%	\$16.70	\$ 15 .88	2017 lq	4.1%	\$29.16	\$27.97
2008	6.5%	\$ 17.35	\$ 16 22	2008	4 5%	\$28.75	\$27.44
ource:CoStarP	roperty® *Selectm a.	rketsincluded in thi	shistoricalchart-seeMethodo.	logy; Source:CoStarP	roperty®		
Natio	nal I	ndusti	cial*	LA In	dustr	ial	
	Vacancy	Q uo ted	RentPASF		Vacancy	Q uo ted	RentPASF
	Vac %	Rates	Occ% xRent\$	Perio d	Vac %	Rates	Occ% xRent\$
Period							
Period 2017 lq	5.4%	\$6.71	\$635	2017 1q	2 2%	\$9.71	\$9.49

LA & Natl. Apartment Trends – Vacancy



LA & Natl. Apartment Trends – Rent



Conclusions and Forecast

- The Presidential Election outcome was good for Commercial Real Estate.
- Less government spending should help keep rates low
- A softening of Dodd Frank (per Trump's Plan) could be good for Commercial Real Estate. Soften not eliminate!
- Rent & Vacancy rates continue to improve across the Country for most markets and most property types
- Rent & Vacancy rate continue to improve across most of SoCal for most markets and most property types
- Most Markets are now well above 2007 Rent Levels
- Continued Low Oil Prices Are Keeping Interest Rates Low

Conclusions and Forecast - continued

- Chinese Restrictions on Exporting of Currency Might Impact Demand for U.S. Real Estate, especially in Top markets...Roughly \$6T in 2016 to Target of \$1T in 2017
- A Sudden Rise in Oil Prices Could be Devastating
- Tech & Oil Markets Have Improved the Most
- CMBS Issue has steadily increased since the 2007/2009 fall, but remains much lower than pre-fall levels, i.e. good thing
- CMBS Delinquencies Have Stabilized Around 3.0-3.5%
- 2017 Forecast CRE will increase 2-5% in value in most markets
- REITs Will Remain "Off the Charts"

