

TEXAS TECH UNIVERSITY SYSTEM

2017 Bond Issue

Gary Barnes Jim Brunjes *Vice Chancellor and Chief Financial Officer*



December 15, 2016







BOR Action Item



 The Board of Regents will approve a resolution authorizing the sale and delivery of "Board of Regents of Texas Tech University System Revenue Financing System Refunding and Improvement Bonds, Series 2017A & 2017B Tax-exempt and Taxable Bonds in the Maximum aggregate amount of \$420 million."

Summary of Projects in Next Bond Issuance

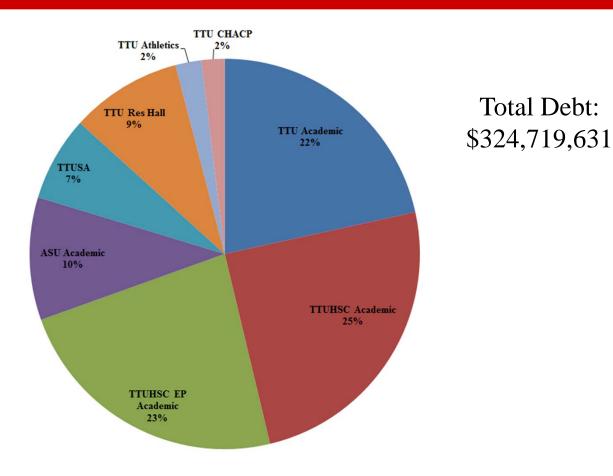


Entity	Project	Revenue Source	Revenue Debt (R) or Tution Revenue Bonds (TRB)		Estimated New Total Proceeds	CP as of 12/1/2016	Est CP at Issue
TTUS	System Building	Admin Fee	R	27,500,000	22,800,000	10,000,000	15,000,000
TTU	Experimental Sciences Bldg II	TRB	TRB	70,000,000	70,000,000	5,757,000	8,000,000
TTU	Honors Res Hall	Housing/Hospitality	R	29,900,000	29,953,763	8,740,000	20,000,000
TTU	Sports Performance Center	Athletics Ops	R	39,871,005	7,000,000	4,300,000	-
ASU	College of Health and Human Services	TRB	TRB	21,360,000	21,360,000	1,100,000	4,000,000
ASU	College of Health and Human Services	Gift Pledge	R	4,000,000	4,000,000	-	_
ASU	Refund TPFA/Govt Capital Corp Leases	Operating Revenues	R	7,650,868	7,650,868	-	-
TTUHSC	Lubbock Education, Research and Technology Bldg	TRB	TRB	60,264,000	60,264,000	5,020,000	7,000,000
TTUHSC	Amarillo Simulation Center	TRB	TRB	5,715,000	5,715,000	1,140,000	4,000,000
TTUHSC	Permian Basin Academic Facility	TRB	TRB	14,256,000	14,256,000	600,000	4,000,000
TTUHSC EP	Medical Science Building II	TRB	TRB	75,520,000	75,520,000	250,000	4,000,000
TTU	Central Heating and Cooling Plant I	Utility Revenues	R	6,750,000	6,200,000	6,200,000	6,200,000
			Revenue Totals TRB Totals	115,671,873 247,115,000	77,604,631 247,115,000	29,240,000 13,867,000	41,200,000 31,000,000

Overall Totals 362,786,873

324,719,631 43,107,000 72,200,000

Breakdown of Projects in New Bond Issuance



Refunding Candidates



Series	Call Date	Principal Outstanding	Refunding Par (Proposed)
2009 12th Series - Tax-Exempt	2/15/2019	\$94,205,000	\$75,430,000
то	\$75,430,000		

Estimated Savings of Advanced Refunding



Series	Estimated Net PV Savings (\$)	Estimated Net PV Savings (%)
2009 12th Series - Tax-Exempt	\$3,104,928	4.11%
TOTAL ESTIMATED SAVINGS:	\$3,104,928	4.11%

2017 Bond Issue



Texas Tech University System Credit Profile

TTUS Credit Profile Select Ratio Comparison FY 2015



Moody's		Pol I				A ANNO STON
	Texas A&M University System	Texas State University System	Texas Tech University System	University of North Texas System	University of Texas System	University of Houston System
MOST RECENT RATING ISSUED BY MOODY'S	Aaa	Aa2	Aa1	Aa2	Aaa	Aa2
Operating Margin (%)	3.7%	2.7%	4.8%	3.7%	5.0%	4.9%
RANKING:	4	5	3	4	1	2
Operating Cash Flow Margin	16.8%	14.2%	14.7%	12.3%	17.0%	15.4%
RANKING:	2	5	4	6	1	3
Spendable Cash & Investments to Total Debt (x)	1.8x	0.8x	2.3x	1.1x	2.4x	0.8x
RANKING:	3	5	2	4	1	5
Total Debt-to-Cash Flow (x)	5.1x	5.2x	2.5x	4.9x	2.9x	5.0x
RANKING:	5	6	1	3	2	4
AVERAGE RANKING:	<u>3.5</u>	<u>5.25</u>	<u>2.5</u>	<u>4.25</u>	<u>1.25</u>	<u>3.5</u>
	<u>3</u> (tie)	<u>5</u>	<u>2</u>	<u>4</u>	<u>1</u>	<u>3</u> (tie)

TTUS Credit Profile Analysis of FY 2014 - FY 2016 Ratios for TTUS





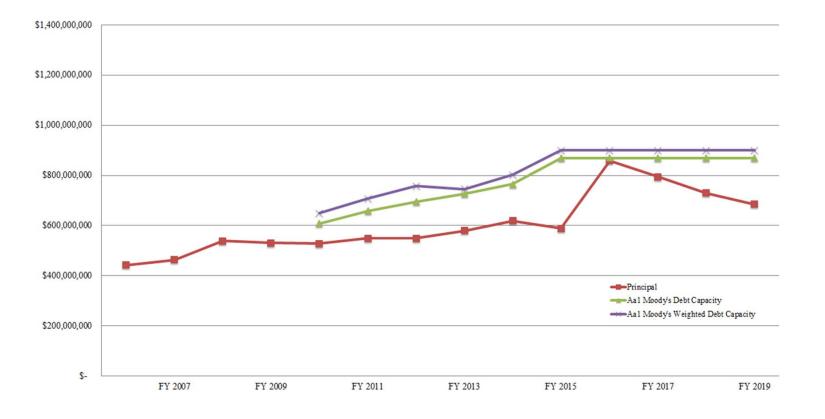
	TTUS – FY 2014	TTUS – FY 2015	TTUS – FY 2016 (est)
Operating Margin (%)	4.6%	4.8%	6.8%
		Better	Better
Operating Cash Flow Margin (%)	13.7%	14.7%	18.7%
		Better	Better
Spendable Cash & Investments to Total Debt (x)	2.3x	2.3x	2.6x
		No Change	Better
Total Debt-to-Cash Flow (x)	2.8x	2.5x	1.7x
		Better	Better

2017 Bond Issue



Future Texas Tech University System Debt

TTUS Debt Capacity Analysis Principal vs. Debt Capacity – Aa1 Medians



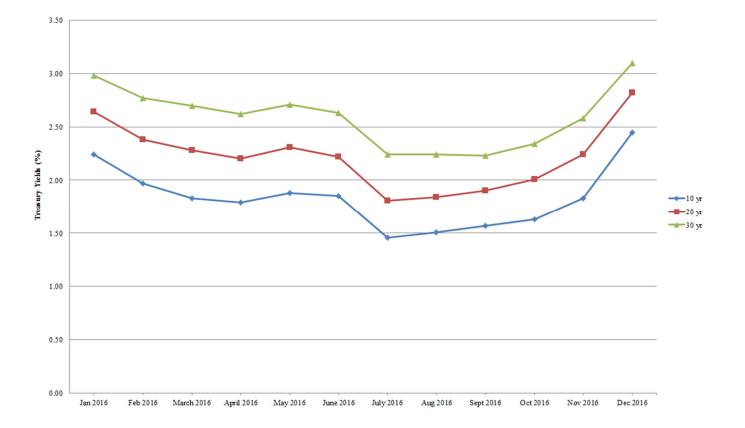


Tentative Schedule of Events



DATE	ACTION
November 9	Oral UW interviews in Dallas Select Underwriting Syndicate Oct-16 Nov-16
November 21	Send FY16 CAFR to rating agencies S M T W T F S 1 S M T W T F S 1 2 3 4 5
December/January	Draft POS 2 3 4 5 6 7 8 9 10 11 12 Prepare Rating Presentations 10 11 12 13 14 15 16 17 18 19 16 17 18 19 20 21 22 23 24 25 26
December 15 & 16	BOR meeting, approve bond resolution 23 24 25 26 27 28 29 27 28 29 30 30 31 27 28 29 30
Mid/Late January	Moody's Call Dec-16 Jan-17 S&P Rating Call S M T W T F S M T W T F S M T W T F S M T W T F S M T W T F S 1 2 3 4 5 6 7 8 9 10 11 12 13 14
February 6	Finalize POS 11 12 13 14 15 16 17 18 19 20 21 Due Diligence Meeting Receive Ratings 26 27 28 29 30 31 22 23 24 25 26 27 28 29 30 31
February 13	Electronic Distribution of POS Feb-17 Mar-17 Premarketing of Bonds S M T W T F S 1 2 3 4 I I 2 3 4
Week of February 20/27	Price Bonds in New York 5 6 7 8 9 10 11 5 6 7 8 9 10 11 12 13 14 15 16 17 18 12 13 14 15 16 17 18
7 days after pricing	Final OS delivery 19 20 21 22 23 24 25 19 20 21 22 23 24 25 26 27 28 28 26 27 28 29 30 31
March 15	Receive approval from AG Closing
60 days after closing	Submit BRB Final Report

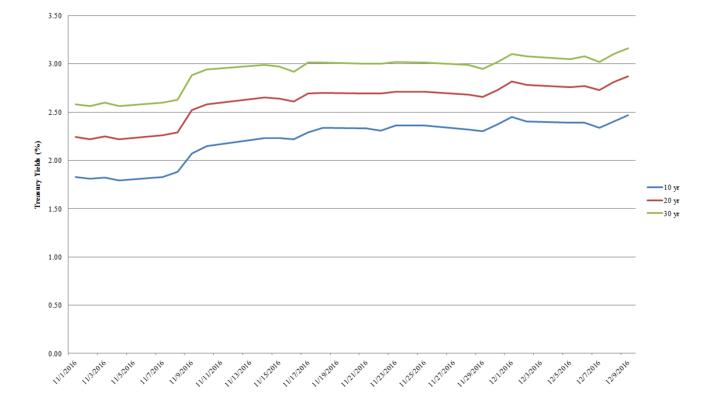
Monthly Trend of Daily Treasury Yields



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Daily Treasury Yields





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November 9	Oral UW interviews in Dallas Select Underwriting Syndicate	Dec-16 SMTWTFS
November 21	Send FY16 CAFR to rating agencies	1 2 3
December/January	Draft POS Prepare Rating Presentations	4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
December 15 & 16	BOR meeting, approve bond resolution	25 26 27 28 29 30 31
Mid/Late-January January 6-13	Moody's Call S&P Rating Call Fitch Rating Call	Jan-17 S M T W T F S 1 2 3 4 5 6 7
February 6 Week of January 16	Finalize POS Due Diligence Meeting Receive Ratings	8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31
February 13 January 20	Electronic Distribution of POS	
February 13 Week of January 23	Premarketing of Bonds	Feb-17 S M T W T F S
Week of February 20/27 Week of January 30	Price Bonds in New York	1 2 3 4 5 6 7 8 9 10 11
7 days after pricing	Final OS delivery	12 13 14 15 16 17 18
March 15 February 22	Receive approval from AG Closing	19 20 21 22 23 24 25 26 27 28
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Debt Ratings



<u>STA</u> NDARD <u>&PO</u> OR'S	AA+
Fitch Ratings	AA+
Moody's	Aa1

Pricing Committee



The "Pricing Committee" shall include:

- The Chancellor
- The Chief Financial Officer (TTUS)
- Members of the Finance and Administration Committee of the Board of Regents

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