Warren County School District

Update on QZAB Financing

May 26, 2015

Prepared by:

Jamie Doyle

Managing Director



John Frey

Director



Public Financial Management, Inc

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MUNICIPAL MARKET UPDATE

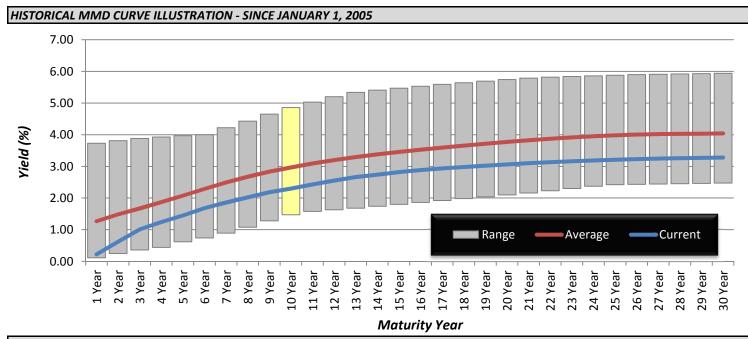
May 26, 2015



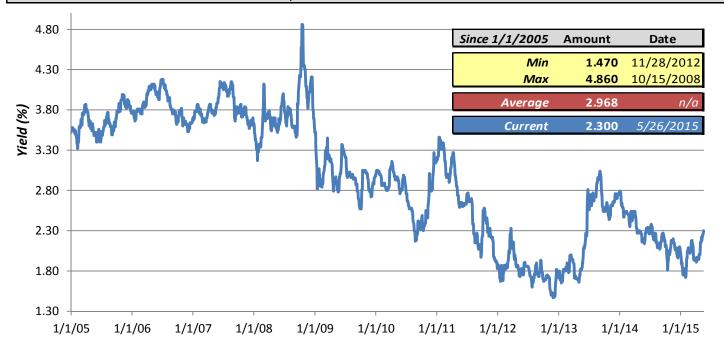
MMD YIELD CURVE

The MMD Yield Curve is a high grade municipal yield curve published daily by Municipal Market Data. It is one of the most commonly used benchmarks in municipal finance. The yields within the curve reflect the current yields for each maturity year at which bondholders would be likely to sell high quality (AAA rated) general obligation backed bonds. The yield curve is typically influenced by new issuances in the primary market as well as post-issuance trading in the secondary market.

Municipal bonds typically trade at a "spread to MMD", meaning the difference between the yield in a specific year of a bond issue and the respective yield in the MMD Yield Curve. While these spreads vary over time, they can be a meaningful and powerful tool in trying to compare relative yield levels in a volatile interest rate environment.







1 Fiscal Year	2 G.O. Bonds	3	4	5	6	7	8
	G.O. Bonas			O O D l -	O O D l -	0.0 D	
	Series of	QZAB Series of	QZAB Series of	G.O. Bonds Series of	G.O. Bonds Series A of	G.O. Bonds Series of	Total Debt
Ended	2010	2011 (1)	2012(2)	2013	2013	2014	Service
6/30/2015	1,472,056	865,527	70,998	295,980	884,550	401,985	3,991,096
6/30/2016	1,223,906	1,024,681	72,999	295,905	868,350	406,940	3,892,781
6/30/2017	1,232,706	984,100	40,000	295,830	862,875	406,850	3,822,361
6/30/2018	1,230,322	988,700	40,000	295,755	862,750	406,760	3,824,287
6/30/2019 6/30/2020	1,230,388 723,753	1,777,800 1,315,700	180,000 1,215,000	295,680 295,583		406,670 406,580	3,890,538 3,956,616
6/30/2021	716,550	762,100	1,825,000	295,463		406,460	4,005,573
6/30/2022	717,706	789,000	1,764,254	295,343		406,310	3,972,612
6/30/2023	722,381	720,000	1,802,781	295,223		406,160	3,946,544
6/30/2024	716,016	702,000	1,797,494	295,103		425,710	3,936,322
6/30/2025		684,000	2,559,846	294,983		449,535	3,988,363
6/30/2026		666,000	2,016,867	792,273		487,273	3,962,412
6/30/2027		648,000	639,871	1,397,523		1,062,210	3,747,604
6/30/2028		630,000	599,733	1,363,323		1,133,010	3,726,066
6/30/2029		612,000	559,595	1,329,123		1,194,910	3,695,628
6/30/2030 6/30/2031		594,000	514,639 479,501	1,294,923 1,260,723		1,267,710 1,777,110	3,671,271 3,517,333
6/30/2032			439,363	1,231,448		1,827,595	3,498,405
6/30/2033			399,225	1,197,098		1,887,285	3,483,607
6/30/2034			359,087	1,162,461		1,490,295	3,011,843
6/30/2035			·				
6/30/2036							
6/30/2037							
TOTAL	9,985,784	13,763,608	17,376,251	14,279,736	3,478,525	16,657,358	75,541,262
Land Officet Descriptor							
Local Effort Requirement	ents 10	11	12	13	14	15	16
Fiscal	G.O. Bonds	QZAB	QZAB	G.O. Bonds	G.O. Bonds	G.O. Bonds	Total
Year	Series of	Series of	Series of	Series of	Series A of	Series of	Local
Ended	2010	2011 (1)	2012(2)	2013	2013	2014	Effort
6/30/2015	1,120,738	865,527	70,998	295,980	665,504	401,985	3,420,733
6/30/2016	931,811	1,024,681	72,999	295,905	653,316	406,940	3,385,652
6/30/2017 6/30/2018	938,511 936,696	723,015 726,395	28,176 28,176	213,054 213,000	649,197 649,103	382,831 382,747	2,934,783 2,936,115
6/30/2019	936,746	1,306,144	126,790	212,946	649,103	382,662	2,965,287
6/30/2020	551,024	966,641	855,832	212,875		382,577	2,968,949
6/30/2021	545,540	559,913	1,285,510	212,789		382,464	2,986,215
6/30/2022	546,420	579,676	1,242,721	212,703		382,323	2,963,842
6/30/2023	549,979	528,982	1,269,859	212,616		382,182	2,943,618
6/30/2024	545,133	515,757	1,266,135	212,530		400,578	2,940,132
6/30/2025		502,533	1,803,127	212,443		422,996	2,941,099
6/30/2026		489,308	1,420,659	570,586		458,506	2,939,059
6/30/2027		476,084	450,718	1,006,481 981.850		999,501	2,932,784
6/30/2028 6/30/2029		462,859 449,635	422,445 394,173	957,220		1,066,122 1,124,367	2,933,276 2,925,394
6/30/2039		436,410	362,506	932,589		1,192,869	2,924,375
6/30/2031		100,110	337,755	907,959		1,672,196	2,917,910
6/30/2032			309,482	886,875		1,719,701	2,916,059
6/30/2033			281,209	862,137		1,775,867	2,919,213
6/30/2034			252,937	837,192		1,402,314	2,492,443
6/30/2035						·	
6/30/2036							
6/30/2037	7,000,500	10.010.550	10.000.005	10 110 700	0.047.440	45 704 700	50.000.000
TOTAL	7,602,598	10,613,558	12,282,205	10,449,729	2,617,119	15,721,729	59,286,939
Principal *:	7,675,000	16,200,000	23,180,000	9,695,000	2,485,000	9,980,000	69,215,000
PE%:	33.23%	36.94%	41.16%	38.96%	34.48%	8.22%	
PE% Status:	Temporary	Estimated	Estimated	Estimated	Temporary	Estimated	PFM
AR%	71.82%	71.82%	71.82%	71.82%	71.82%	71.82%	2.2.474
Call Date:	10/1/2015	Non-Callable	Non-Callable	5/15/2018	Non-Callable	5/15/2019	
	Cur Ref 03 & 04	New Money	New Money	New Money	Cur Ref 08	New Money	
-		-	-	-		-	
I							
2015 Reimbursement 2016 Reimbursement		229,627 271,851	20,988 21,579	82,818 82,797		23,732 24,024	357,165 400,252

^{*} Outstanding as of May 26, 2015

⁽¹⁾ QZAB debt service is net of Fed. Reimbursement Subsidy 5.138% & est. sinking fund earnings of 2.00%

⁽¹A) Assumes Fed. Reimbursement Subsidy for 9/1/13 payments reduced by 8.70% (\$36,207.49 per payment)
(1B) Assumes Fed. Reimbursement Subsidy for 3/1/14 & 9/1/14 payments reduced by 7.20% (\$29,964.82 per payment)

⁽¹C) Assumes Fed. Reimbursement Subsidy for 3/1/15 & 9/1/15 payments reduced by 7.30% (\$30,380.99 per payment)

(2) QZAB debt service is net of Fed. Reimbursement Subsidy 4.185% & sinking fund earnings of 3.14%

(1A) Assumes Fed. Reimbursement Subsidy for 11/1/13 & 5/1/14 payments reduced by 7.20% (\$34,922.99 per payment)

⁽¹B) Assumes Fed. Reimbursement Subsidy for 5/1/2015 & 11/1/2015 payments reduced by 7.30% (\$32,999.10 per payment)

⁽³⁾ Assumes that receipt of state reimbursement on highlighted bonds is delayed from FY11/12 through and including FY15/16 (Approx. \$868,475)

WARREN COUNTY SCHOOL DISTRICT Series of 2015 Comparison of QZAB vs. Tax Exempt Bond Issue

	OPTION 1	OPTION 2	
	Est. Tax Exempt Bond Issue		Est. Benefit Of QZAB
Estimated Project Proceeds Available to District	8,212,326	8,211,200	
Borrowing Amount:	8,455,000	8,449,000	
PLUS: Estimated Interest:	6,376,914	4,431,618	
LESS: Estimated Sinking Fund Earnings:	0	(190,400)	
LESS: Estimated State Aid:	0	0	
Total Local Effort (Principal + Interest):	14,831,914	12,690,218	2,141,696
Assumptions			
Est. Final Maturity:	9/1/2036	9/1/2036	
Est. Interest Rate:	3.90%	2.50%	
Est. Subsidy:	0.00%	0.00%	
Est. Sinking Fund Investment Rate:	0.00%	2.00%	
	L		ā

^{*} Assumes a bid price of 100.00%

WARREN COUNTY SCHOOL DISTRICT QUALIFIED ZONE ACADEMY BOND PROGRAM SERIES OF 2015

Estimated: 9/22/2015 Settlement: 9/22/2015 28 years 9/1/2036 Maximum Maturity: (9/1/2043) Actual Final Maturity: \$8,449,000 Par Amount: Bid Price: 100.0000% \$8,449,000 Proceeds: First Interest Payment: Principal Due 3/1/2016 September 1 Taxable Coupon Tax Credit Rate Assumed Investment Rate: 2.500% 4.620%

2.000% [1]

AR% 72.82% (2014-15) PE% 0.00% Estimated 1 Mill = \$420,000 Estimated

	2	2						40 44 40 40						
1	BANK TAX CREDIT	BONDHO!	4 DER INFORMA	5 TION	6	7 TED SINKING EU	8 ND INFORMATIO	9	10	11 SUED NET DAVME	12 VIT STRUCTURE	13	14 TOTAL LOCA	15 N. EEEORT
	BAINK TAX CREDIT	BONDHOLDER INFORMATION		ESTIMATED SINKING FUND INFORMATION			ISSUER NET PAYMENT STRUCTURE (5+8)				TOTAL LOCAL EFFORT			
Loan	Bondholder				Gross Principal	Less:	Net	Principal	(5+8)			Annual	Existing	Tota
Payment	Tax Credit		Taxable		Sinking Fund	Sinking Fund	Sinking Fund	Sinking Fund	Semi-Annual	Annual	Less:	Estimated	Local	Loca
Date	Rate	Principal	Coupon	Interest	Required	Income	Deposit	Balance	Net Payments	Net Payments	State Aid	Local Effort	Effort	Effor
-		·	-		·	2.000% [1]			•				
						•								
3/1/2016				101,505.35					101,505.35	101,505.35		101,505.35	2,927,449.38	3,028,954.73
9/1/2016	4.620		2.500	105,612.50	5,000		5,000.00	5,000.00	110,612.50					
3/1/2017	4 000		0.500	105,612.50	5,000	(400.00)	4 000 00	5,000.00	105,612.50	216,225.00		216,225.00	2,922,425.06	3,138,650.06
9/1/2017	4.620		2.500	105,612.50 105,612.50	5,000	(100.00)	4,900.00	10,000.00 10,000.00	110,512.50	040 405 00		240 425 00	0.000.740.00	0.400.070.00
3/1/2018 9/1/2018	4.620		2.500	105,612.50	5,000	(200.00)	4,800.00	15,000.00	105,612.50 110,412.50	216,125.00		216,125.00	2,923,748.33	3,139,873.33
3/1/2019	4.620		2.500	105,612.50	5,000	(200.00)	4,000.00	15,000.00	105,612.50	216,025.00		216,025.00	2,952,404.51	3,168,429.51
9/1/2019	4.620		2.500	105,612.50	5,000	(300.00)	4,700.00	20,000.00	110,312.50	210,023.00		210,023.00	2,932,404.31	3,100,423.31
3/1/2020	4.020		2.000	105,612.50	5,500	(300.00)	4,700.00	20,000.00	105,612.50	215,925.00		215,925.00	2,955,197.49	3,171,122.49
9/1/2020	4.620		2.500	105,612.50	5,000	(400.00)	4,600.00	25,000.00	110,212.50	2.0,020.00		2.0,020.00	2,000,101.40	5,111,122.40
3/1/2021	1.020			105,612.50	2,300	()	.,	25,000.00	105,612.50	215,825.00		215,825.00	2,972,021.85	3,187,846.85
9/1/2021	4.620		2.500	105,612.50	5,000	(500.00)	4,500.00	30,000.00	110,112.50			.,.	, , , , , , , , , , , , , , , , , , , ,	
3/1/2022				105,612.50				30,000.00	105,612.50	215,725.00		215,725.00	2,949,796.23	3,165,521.23
9/1/2022	4.620		2.500	105,612.50	5,000	(600.00)	4,400.00	35,000.00	110,012.50					
3/1/2023				105,612.50				35,000.00	105,612.50	215,625.00		215,625.00	2,929,653.26	3,145,278.26
9/1/2023	4.620		2.500	105,612.50	5,000	(700.00)	4,300.00	40,000.00	109,912.50					
3/1/2024				105,612.50				40,000.00	105,612.50	215,525.00		215,525.00	2,926,261.46	3,141,786.46
9/1/2024	4.620		2.500	105,612.50	5,000	(800.00)	4,200.00	45,000.00	109,812.50					
3/1/2025			0.50-	105,612.50		(000.55)	4 400	45,000.00	105,612.50	215,425.00		215,425.00	2,926,517.22	3,141,942.22
9/1/2025	4.620		2.500	105,612.50	5,000	(900.00)	4,100.00	50,000.00	109,712.50	045 005 00		045.005.00	0.004.040.44	0.440.405.44
3/1/2026 9/1/2026	4.620		2.500	105,612.50 105,612.50	5,000	(1,000.00)	4,000.00	50,000.00 55,000.00	105,612.50 109,612.50	215,325.00		215,325.00	2,924,810.11	3,140,135.11
9/1/2026 3/1/2027	4.620		∠.500	105,612.50	5,000	(1,000.00)	4,000.00	55,000.00	109,612.50	215,225.00		215,225.00	2,921,438.49	3,136,663.49
9/1/2027	4.620		2.500	105,612.50	5,000	(1,100.00)	3,900.00	60,000.00	109,512.50	215,225.00		215,225.00	2,921,430.49	3,130,003.48
3/1/2028	4.020		2.000	105,612.50	5,500	(1,100.00)	3,300.00	60,000.00	105,612.50	215,125.00		215,125.00	2,922,237.69	3,137,362.69
9/1/2028	4.620		2.500	105,612.50	5,000	(1,200.00)	3,800.00	65,000.00	109,412.50	,		,	_,,	.,,
3/1/2029				105,612.50		,		65,000.00	105,612.50	215,025.00		215,025.00	2,914,669.63	3,129,694.63
9/1/2029	4.620		2.500	105,612.50	5,000	(1,300.00)	3,700.00	70,000.00	109,312.50					
3/1/2030				105,612.50				70,000.00	105,612.50	214,925.00		214,925.00	2,913,974.94	3,128,899.94
9/1/2030	4.620		2.500	105,612.50	5,000	(1,400.00)	3,600.00	75,000.00	109,212.50					
3/1/2031				105,612.50				75,000.00	105,612.50	214,825.00		214,825.00	2,909,564.08	3,124,389.08
9/1/2031	4.620		2.500	105,612.50	5,000	(1,500.00)	3,500.00	80,000.00	109,112.50					
3/1/2032				105,612.50				80,000.00	105,612.50	214,725.00		214,725.00	2,907,950.10	3,122,675.10
9/1/2032	4.620		2.500	105,612.50	5,000	(1,600.00)	3,400.00	85,000.00	109,012.50	24.4.625.62		044.005.00	0.044.054.00	0.405.070.00
3/1/2033	4.620		0.500	105,612.50	405.000	(4.700.00)	400 000 00	85,000.00	105,612.50	214,625.00		214,625.00	2,911,354.93	3,125,979.93
9/1/2033 3/1/2034	4.620		2.500	105,612.50 105,612.50	165,000	(1,700.00)	163,300.00	250,000.00 250,000.00	268,912.50 105,612.50	374,525.00		374,525.00	2,485,210.69	2,859,735.69
9/1/2034	4.620		2.500	105,612.50	2,650,000	(5,000.00)	2,645,000.00	2,900,000.00	2,750,612.50	374,323.00		314,323.00	2,400,210.09	2,009,735.08
3/1/2035	4.620		2.000	105,612.50	2,030,000	(3,000.00)	2,040,000.00	2,900,000.00	105.612.50	2.856.225.00		2.856.225.00		2.856.225.00
9/1/2035	4.620		2.500	105,612.50	2,705,000	(58,000.00)	2,647,000.00	5,605,000.00	2,752,612.50	2,000,220.00		2,000,220.00		_,000,220.00
3/1/2036	4.020		2.000	105,612.50	2,7 55,500	(00,000.00)	_,0 ,000.00	5,605,000.00	105,612.50	2,858,225.00		2,858,225.00		2,858,225.00
9/1/2036	4.620	8,449,000	2.500	105,612.50	2,844,000	(112,100.00)	2,731,900.00	8,449,000.00	2,837,512.50	,,		_,		.,,0.00
3/1/2037		-, -,			,- ,	. ,	,	8,449,000.00	,,.	2,837,512.50		2,837,512.50		2,837,512.50
								., .,				,,.		
TOTALS		8,449,000		4,431,617.85	8,449,000.00	(190,400.00)	8,258,600.00		12,690,217.85	12,690,217.85	0.00	12,690,217.85	55,196,685.45	67,886,903.30

^[1] For these purposes, investment rate is estimated. Investment contract will not be locked in prior to closing.

WARREN COUNTY SCHOOL DISTRICT

Estimated Schedule: \$8,449,000 2015 QZAB

Financing & Legal Team and District's Business Office:

- Proceed with preparation of financial and legal documents
- Proceed with Moody's credit rating process (current rating from Moody's is "A2")
- Selection of underwriter

August 3rd

 Federal determination of QZAB maximum final maturity (and permitted sinking fund yield) for QZABs priced in August

August 10th Board Meeting

- o Parameters Bond Sale
- Official vote on Debt Resolution
- Documents, including Bond Purchase Agreement, will reflect a maximum not-toexceed amount and interest rate

Mid-August (after August 10th)

- Bond Pricing
- o Federal determination of bondholder's tax credit rate
- District locks-in interest rate
- Provide final results to District Business Office

Mid-Late September

o Settlement of 2015 QZABs – proceeds available for District's capital project

Sample Motion

Resolved: The Board of School Directors of the Warren County School District does hereby authorize the Administration to work with Public Financial Management, Inc. as Independent Financial Advisor, Knox McLaughlin Gornall & Sennett, P.C. as Bond Counsel and the local Solicitor to issue Qualified Zone Academy Bonds, Series of 2015 in the amount of \$8,449,000 for the purpose of funding new money needs of the District.