

Money Talks

WASBO Webinar Series October 27, 2023

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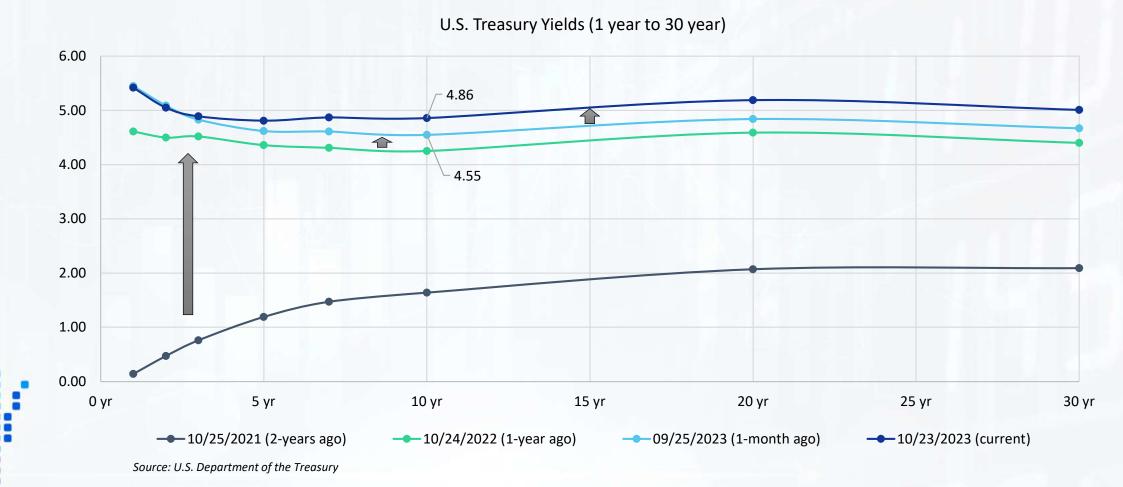
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Market Update

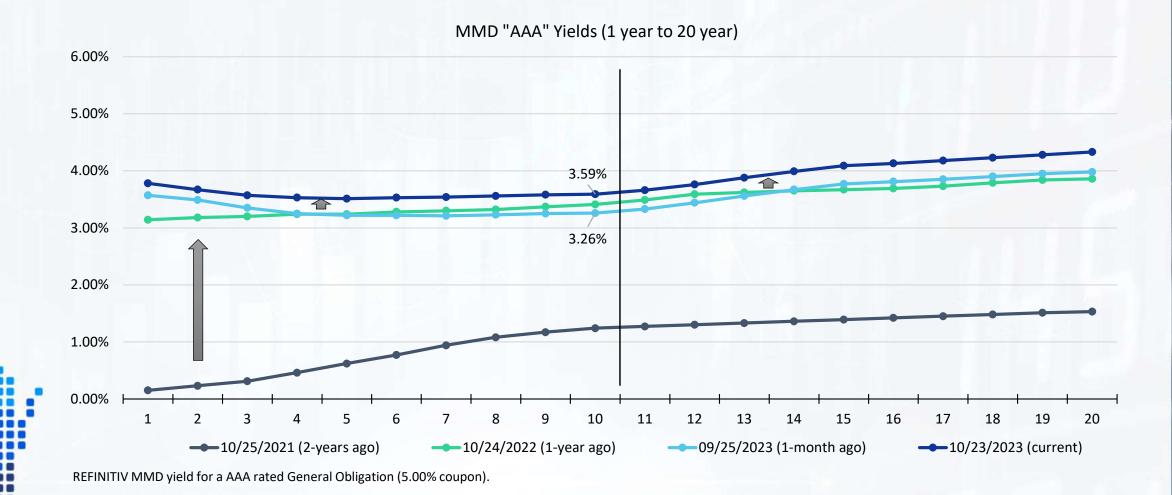
U.S. Treasury Yield Curves (1-30 years)

Below shows U.S. Treasury yields from 1 year to 30 year at different points in time. Over the past two months we have seen a material increase in longer term rates (30-35 bps each month), which has caused the yield curve to flatten to a level not seen since July 2022. On October 23, 2023, the 10-year crossed 5.00% intraday for the first time in 16 years, before ending the day at 4.86%.



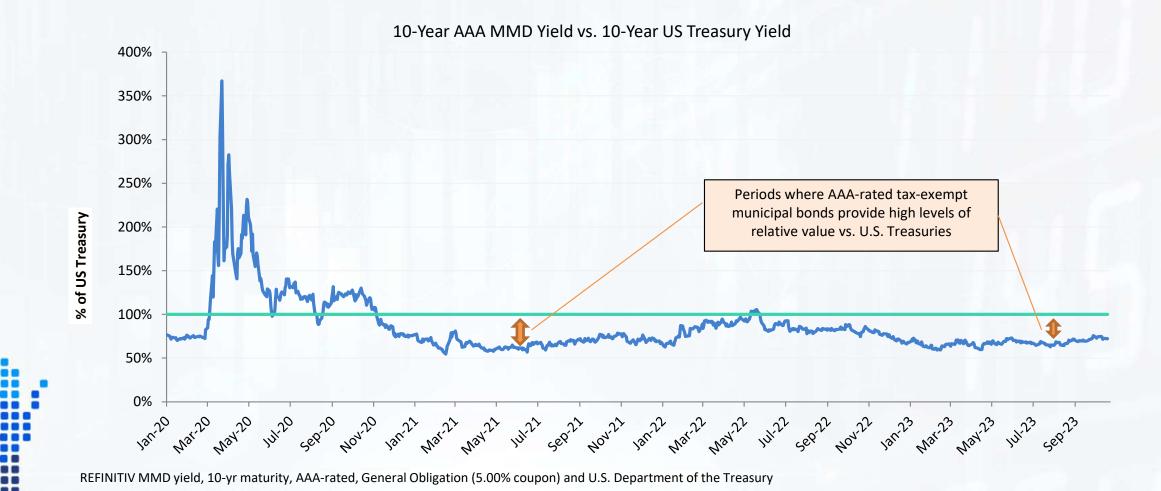
AAA Tax-Exempt Yield Curves (1-20 years)

Below shows how AAA-rated tax-exempt yields (1 year to 20 year) have changed over the past month, one year ago, and two years ago. Tax-exempt rates have moved higher largely in sympathy with US Treasury rates.



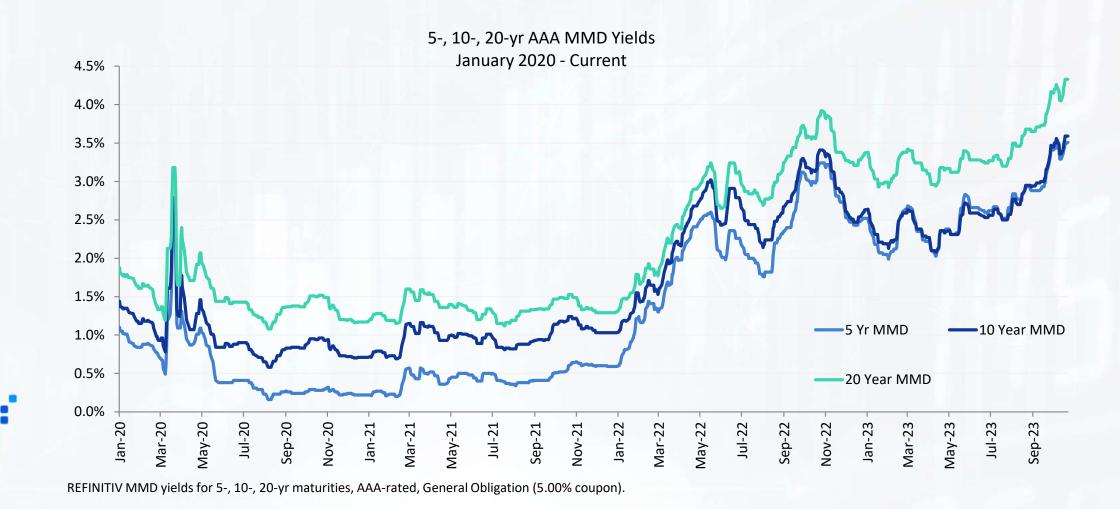
Value of Federal Tax-Exemption (2020 - current)

Below shows how AAA-rated 10-year tax-exempt yields have compared to 10-year US Treasury yields since 2020. While rates have move higher, tax-exempt municipals still offer value to issuers.



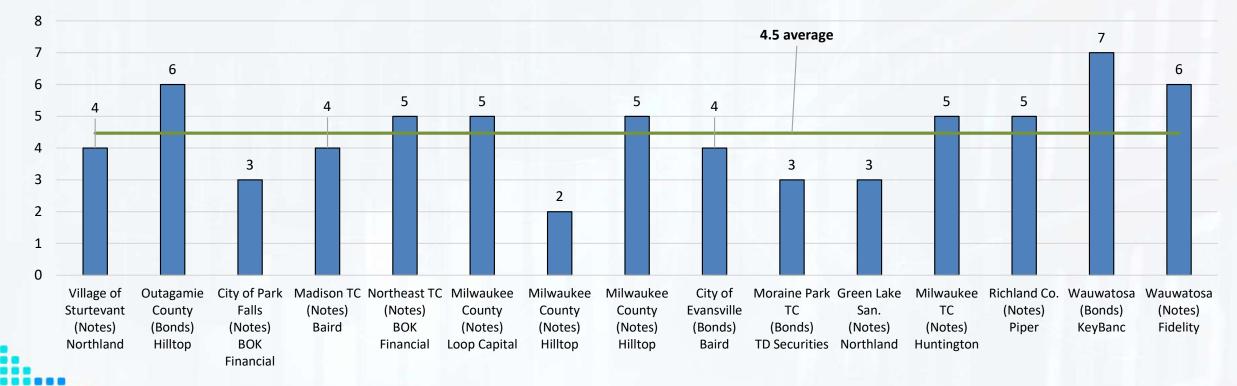
AAA Tax-Exempt Yields (2020 - current)

Below shows how AAA-rated tax-exempt yields for <u>5-, 10-, 20-year maturities</u> have performed since 2020. Municipal bond rates have moved higher from their recent trading range over the past couple of months.



Wisconsin Public Entity Competitive Debt Sales (October 2-24)

WI Competitive Sales: Number of Bids and Winning Bidder (October 2-24, 2023)



Source: REFINITIV Municipal Market Monitor (TM3)

Number of Bids

Above shows the number of bids for Wisconsin issues that sold so far in October via the competitive public sale process.

The average number of bids per debt issue during this period was 4.5.

Wisconsin Public Entity Competitive Debt Sales (October 2-24)

Below shows the company logos from the nine (9) different municipal securities underwriters that placed a winning bid on one of the 15 competitively sold debt issues on the previous slide. This diversity of firms is indicative of a deep and competitive market.









TD Securities







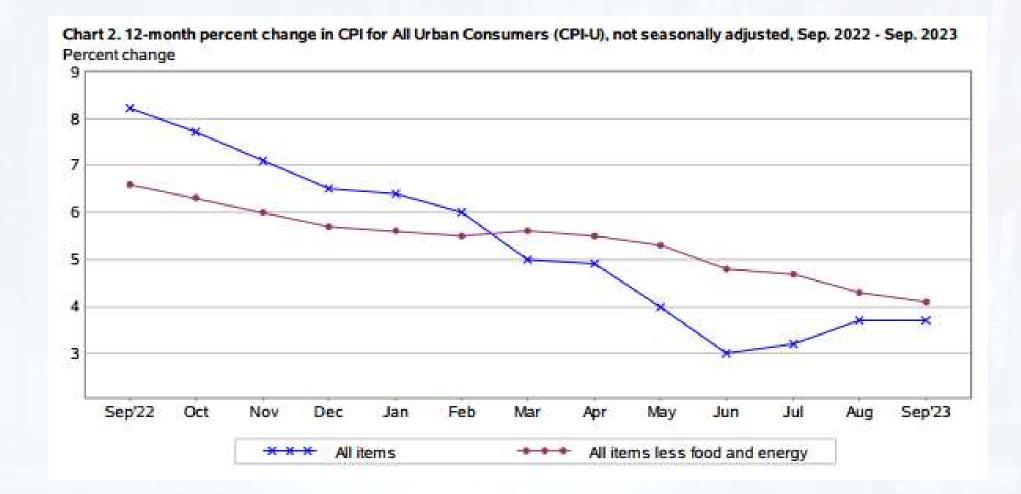
PIPER SANDLER





Inflation - Consumer Price Index (Stellmacher Index)

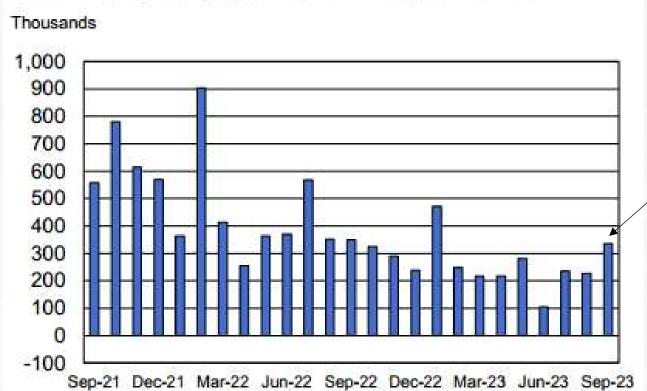
On October 12, the September consumer-price index (CPI) was released with the core CPI, which excludes volatile energy and food prices, continuing to decline but is still higher than the all-items index for the 7th consecutive month. Over the past 12 months core CPI increased 4.1%, and over the past 3 months increased by an annualized 3.1%. Below is from the Bureau of Labor Statistics.



Employment – Job Creation and Wage Increases

On October 6, the September Jobs Report was released. Nonfarm payrolls increased by 336,000, which was roughly twice the consensus of economists' estimates. Hourly wages for September grew by 4.2% over the past 12 months, and on a three-month annualized basis increased by 3.4%. Unemployment rate was unchanged at 3.8%. Below is from the Bureau of Labor Statistics.

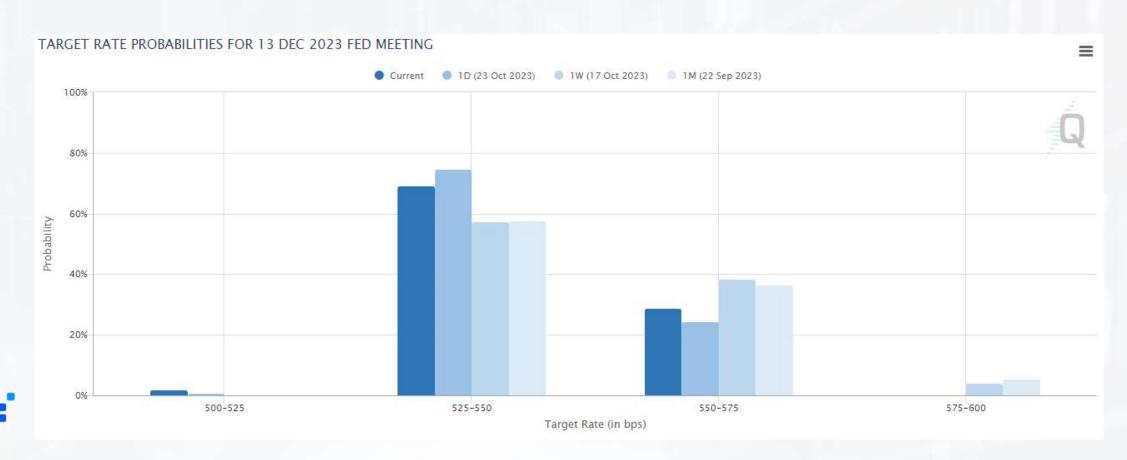
Chart 2. Nonfarm payroll employment over-the-month change, seasonally adjusted, September 2021 – September 2023



336,000 increase in nonfarm payroll for September

Federal Reserve Rate Hike Probabilities

The Federal Reserve has two remaining Open Market Committee meetings in 2023 (Nov. 1 and Dec. 13). Currently, interest rate traders are predicting no change in November and only a 1 in 4 chance of an increase in December. Moderating inflation and wage gains, along with higher long-term rates, have increased the likelihood that the Fed will not have to raise again in this cycle.





US Residential Mortgage Rates

Both the 15-year and 30-year fixed mortgage rates continue to increase, with current levels not seen since 2000.



High rates are both (i) softening demand, and (ii) limiting the inventory of homes on the market, because homeowners with low rates are unwilling to sell and move. The small supply is pushing home prices higher in much of the U.S.

Year to date, sales of previously owned homes are on track to be the lowest since at least 2011 (National Association of Realtors).

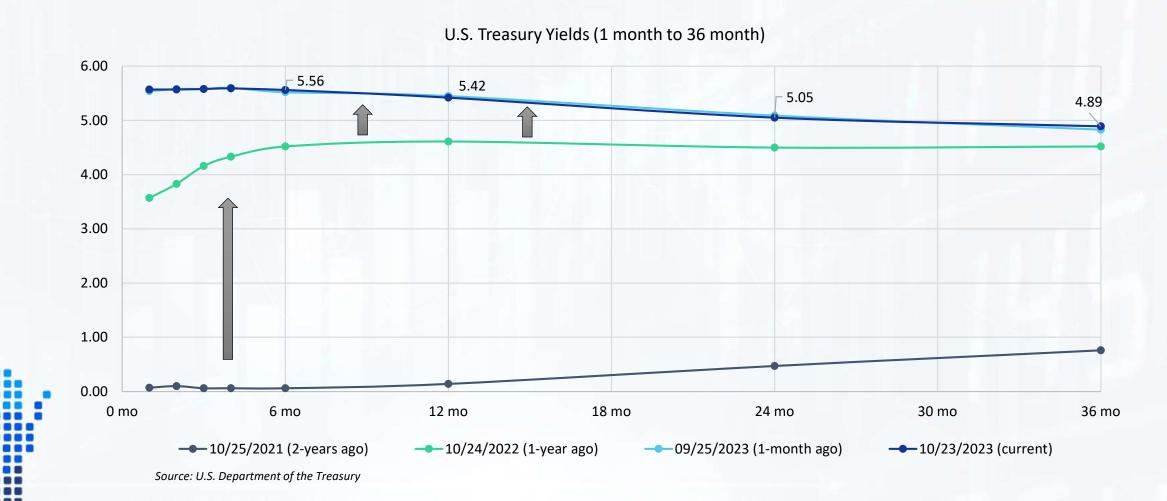
Mortgage applications fell in the week ended Oct. 13 to their lowest level since 1995, according to the Mortgage Bankers Association.



Investment Update

U.S. Treasury Yields (1-month to 36 months) (Typical of Local Gov. Investment)

Below shows how short-term U.S. Treasury yields (1-month to 36-month) have changed over the past month, past year, and two years ago. Short-term rates have changed little over the past month.



Investment Rates as of October 24, 2023

The below table provides example rates for several permissible investment options including: (i) current WISC liquid rate, (ii) Certificates of Deposit, (iii) U.S. Treasuries, and (iv) U.S. Agencies.

Sample School District

1,000,000.00 Investment Amount 10/24/23 Date of Indication

MATURITY DATE	DAYS	MATURITY AMT	Rate	INTEREST EST.	WISC-IS*	CDs**	UST**	AGY**
01/23/24	91	\$ 1,000,000	5.48%	\$ 13,660	5.33%	5.48%	5.45%	5.38%
04/22/24	181	\$ 1,000,000	5.56%	\$ 27,572	5.33%	5.35%	5.56%	5.36%
07/22/24	272	\$ 1,000,000	5.62%	\$ 41,903	5.33%	5.62%	5.47%	5.45%
10/23/24	365	\$ 1,000,000	5.72%	\$ 57,220	5.33%	5.72%	5.41%	5.40%
04/21/25	545	\$ 1,000,000	5.66%	\$ 84,497	5.33%	5.66%	5.24%	5.25%
10/24/25	731	\$ 1,000,000	5.49%	\$ 109,930	5.33%	5.49%	5.08%	5.15%
04/21/26	910	\$ 1,000,000	5.17%	\$ 128,796	5.33%	5.17%	4.97%	5.02%
10/24/26	1096	\$ 1,000,000	5.10%	\$ 153,140	5.33%	5.10%	4.91%	4.98%



Investment rates are indicative as of 10/24/23. Investment Rates at the time of execution may vary, based on market conditions at that time.

https://investwisc.com/



^{*}WISC-IS rate shown is the daily rate from 10/23/23.

^{**}CDs/UST/AGY rates shown are gross of fees.

Timely Topic – Understanding the Tax Bill



Example Property Tax Bill

Below is the top portion of an example property tax bill prepared by the Wisconsin Department of Revenue.

STATE OF WISCONSIN
REAL ESTATE PROPERTY TAX BILL FOR 2023

VILLAGE OF BADGER AMERICA CO.

BILL AND SUE HOMEOWNER PO Box 123 BADGER WI 58425

> Not part of the bill template. Prints only on bills for property located within a Drainage District.

IMPORTANT: • Correspondence should refer to tax number.

· See reverse side for important information.

 Be sure this description covers your property. This description is for property tax bill only and may not be a full legal description.

LEGAL DESCRIPTION

PART OF THE FIRST ADDITION TO THE SECOND

ADDITION CONSISTING OF 1 LOT

Drainage District Notification: \$

PARCEL # 12-116-0029-0000



Understanding the Tax Bill - Assessments

The **Assessment Ratio** is "Total Assessed Value" divided by "Total Est. Fair Mkt" (i.e., the Equalized Value) as determined by the State This can be a key indicator of a potential near-term reassessment if the ratio is too low

- A reassessment doesn't mean a communities property tax bills will skyrocket
- Due to revenue limits, a reassessment means how taxes are apportioned will shift in a give year

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PARCEL # 12-116-0029-0000

Assessed Value Land	Ass'd. Value Improvements	Total Assessed Value	Ave. Assmt. Ratio	Net Assessed Value Rate	
22,000	76,900	98,900	98.9000000	(Does NOT reflect credits)	.017243455
Est. Fair Mkt. Land	Est. Fair Mkt. Improvements	Total Est. Fair Mkt.	A Star in this box means Unpaid Prior	School taxes reduced by	
22,250	77,750	100,000	means Unpaid Prior Year Taxes	school levy tax credit	185.01



Tax Apportionment Example

The apportionment of Property Tax adjusts each year based upon equalized values

- City of A will see an <u>increase</u> of taxes apportioned
- Village of B will see a <u>decrease</u> of taxes apportioned

ABC School District Equalized Values

es	Fall 2021 Values	Fall 2022 Values	% Increase
Town of A	\$16,024,878	\$19,107,150	19.23%
Village of A	\$68,248,718	\$69,689,060	2.11%
City of A	\$197,641,833	\$236,337,921	19.58%
Town of B	\$1,373,842	\$1,768,166	28.70%
Village of B	\$243,197,900	\$265,518,300	<u>9.18</u> %
Total:	\$526,487,171	\$592,420,597	12.52%

ABC School District Apportionment

T of A	Fall 2021 Values		Fall 2022 Values	
Town of A	3.04%	+ ,		,
Village of A	12.96%	\$1,944,455.30	11.76%	\$1,764,516.47
City of A	37.54%	. , , ,		\$5,984,040.45
Town of B	0.26%	T /		\$44,769.70
Village of B	<u>46.19</u> %	\$6,928,883.93	<u>44.82</u> %	\$6,722,883.24
Total:	<u>100.00</u> %	\$15,000,000.00	<u>100.00</u> %	\$15,000,000.00



Net Assessed Value Rate

The **Net Assessed Value Rate** is the same as dollars per \$1,000 or assessed property value.

- Calculated by adding each taxing jurisdiction's mill rate less the State Credit
- The State Credit is determined by a statutory formula and varies from year to year
 - Part of the State Credit consists of a School Levy Credit

STATE OF WISCONSIN REAL ESTATE PROPERTY TAX BILL FOR 2023

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22,000	76,900	98,900	98.9000000	(Does NOT reflect credits)	.017243455
Est. Fair Mkt. Land	Est. Fair Mkt. Improvements	Total Est. Fair Mkt.	A Star in this box	School taxes reduced by	
22,250	77,750	100,000	means Unpaid Prior Year Taxes	school levy tax credit	185.01



School Levy Credit

The School Levy Credit is a key piece of the actual property tax bill

- 2023 Certified Levy's will be impacted by an increase of \$255 million for the School Levy Credit
- This amount will vary from year to year

STATE OF WISCONSIN
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Assessed Value Land 22,000	Ass'd. Value Improvements 76.900	Total Assessed Value 98,900	Ave. Assmt. Ratio	Net Assessed Value Rate (Does NOT reflect credits)	.017243455
Est. Fair Mkt. Land	Est. Fair Mkt. Improvements	Total Est. Fair Mkt.	A Star in this box	NOTE OF STREET	
22,250	77,750	100,000	means Unpaid Prior Year Taxes	School taxes reduced by school levy tax credit	185.01



School Levy Credit

The School Levy Credit, continued

- As listed on every tax bill, it is important to note that individual tax bills are shown as "net" from one year to the next taking into consideration the School Levy Credit
- This means the impact of any increase/decrease due to the School Levy Credit will visually show as net on the actual tax bill

Assessed Value Land	Ass'd. Value Improvements	Total Assessed Val	ue Ave. Ass	smt. Ratio	Net Assess	sed Value Rate	.01724345	
22,000	76,900	98,900	98.90	98.9000000		(Does NOT reflect credits)		55
Est. Fair Mkt. Land	Est. Fair Mkt. Improvements	Total Est. Fair Mkt.		in this box	School tax	es reduced by	10= 01	
22,250	77,750	100,000	Year T	S Unpaid Prior Faxes		tax credit	185.01	
205 10-11120-1-1-1 01 9000	20 Est. Sta	22 te Aids	2023 Est. State Aids	20	22	2023	% та	ax
Taxing Jurisdiction	Allocated	Tax Dist. Al	ocated Tax Dist.	Net	Tax	Net Tax	Chan	nge
 AMERICA CO	16	,632	17,466	3	17.60	328.20	3.3	3%
VILLAGE OF BADG	ER 116	,684	117,737	1	83.29	183.32	.02	2%
SCH. DIST. #3150	659	,459	569,823	1,2	20.87	1,188.45	-2.6	3%
TECH. COLLEGE #5	56 20	,283	22,326	1	50.06	173.21	15.4	1%
Total	813	,058	727,352	1,8	89.09	1,890.38	.01	%
	First Do	ollar Credit			79.76	74.64	-6.4	
		& Gaming Credit		1910	05.56	121.08	14.7	
	Net Pro	perty Tax		1,7	03.77	1,694.66	-0.5)%



First Dollar Credit

The First Dollar Credit is a credit for real estate property owners that have improvements on the property

- The First Dollar Credit provides direct property tax relief for property owners on their property tax bill
- Different than the School Levy Credit, this is provided at the bottom of the bill as a net reduction to the entire bill

Assessed Value Land 22,000	Ass'd. Value Improvements 76,900	Total Assessed V		Net As	ssessed Value Rate NOT reflect credits)	.017243455	
Est. Fair Mkt. Land 1	Est. Fair Mkt. Improvements 77,750	Total Est. Fair Mk	means I	Jipalu Filor	ol taxes reduced by I levy tax credit	185.01	
Taxing Jurisdiction	20 Est. Sta Allocated		2023 Est. State Aids Allocated Tax Dist.	2022 Net Tax	2023 Net Tax	% Tax Change	
AMERICA CO	16	,632	17,466	317.60	328.20	3.3%	
VILLAGE OF BADGE	ER 116	6,684	117,737	183.29	183.32	.02%	
SCH. DIST. #3150	659	,459	569,823	1,220.87	1,188.45	-2.6%	
TECH. COLLEGE #5	6 20	,283	22,326	150.06	173.21	15.4%	
Total		,058	727,352	1,889.09			
	Lottery	ollar Credit & Gaming Credi operty Tax	t	79.76 105.56 1,703.77	121.08	14.7%	



Lottery & Gaming Credit

The **Lottery & Gaming Credit** is another tax credit.

- The Lottery & Gaming Credit is a credit to provide direct property tax relief on the individual tax bill. Lottery proceeds are in a segregated state fund.
- Different than the School Levy Credit, this is provided at the bottom of the bill as a net reduction to the entire bill.

Assessed Value Land 22,000	Ass'd. V	76,900	Total Assess	ed Value 900	Ave. Assmt	\$1847 AT \$1400 CH		sed Value Rate reflect credits)	.017243455
Est. Fair Mkt. Land 22,250	Est. Fai	77,750	Total Est. Fa	ir Mkt. ,000	A Star in means Un Year Tax	npaid Prior		xes reduced by y tax credit	185.01
Taxing Jurisdiction		202 Est. Sta Allocated	te Aids	Est. S	023 tate Aids d Tax Dist.	20 Net	22 Tax	2023 Net Tax	% Tax Change
AMERICA CO		16	,632	1	7,466	3	17.60	328.20	3.3%
VILLAGE OF B	ADGER	116	,684	11	7,737	1	83.29	183.32	.02%
SCH. DIST. #31	150	659	,459	56	9,823	1,2	20.87	1,188.45	-2.6%
TECH. COLLEC	SE #56	20	,283	2	2,326	1	50.06	173.21	15.49
Тс	otal	First Do	,058 ollar Credit & Gaming C	N 40 200	7,352		89.09 79.76 05.56	1,890.38 74.64 121.08	.01% -6.4% 14.7%
			perty Tax	realt			03.77	1,694.66	-0.5%



Net Property Tax

Taxing Jurisdiction	2022 Est. State Aids Allocated Tax Dist.	2023 Est. State Aids Allocated Tax Dist.	2022 Net Tax	2023 Net Tax	% Tax Change
AMERICA CO VILLAGE OF BADGER SCH. DIST. #3150	16,632 116,684 659,459	17,466 117,737 569,823	317.6 183.2 1,220.8	0 328.20 9 183.32 7 1,188.45	3.3% .02% -2.6%
TECH. COLLEGE #56	20,283 813,058 First Dollar Credit	22,326 727,352	1,889.0 79.7	9 1,890.38	.01% -6.4%
	Lottery & Gaming O Net Property Tax			6 121.08 7 1,694.66	14.7% -0.5%
Make Check Payable to: JANE DOE TREASURER, VILLAGE OF BADGER RR 9, PO BOX 6890 BADGER WI 58425	\$ 2	nent Due On or Before January 31,053.68 nent Due On or Before January,206.35		GARBAGE	\$1,694.66 359.02
Second Installment Payment Payable To: JOHN SMITH, COUNTY TREASURER AMERICA COUNTY	And Second Ins	847.33	ily 31		



COURTHOUSE BADGER WI 58425

Understanding the Tax Bill - Key Items to Remember

Understanding some of the key factors of the property tax bill will help you respond to questions or concerns once tax bills are released:

- Any municipalities going through a reassessment?
- How the District levy fits into the Net Assessed Value Rate
- How the School Levy Credit is reflected on the tax bill
- The First Dollar Credit
- The Lottery & Gaming Credit
- The overall net property tax amount
- Homestead Tax Credit

Think about any of these pieces that you can communicate ahead of tax bills being released



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