

## 2022 TAX INFORMATION LETTER

### Nuveen Municipal Closed-End Funds

#### National Funds:

NVG	Nuveen AMT-Free Municipal Credit Income Fund
NUW	Nuveen AMT-Free Municipal Value Fund
NEA	Nuveen AMT-Free Quality Municipal Income Fund
NDMO	Nuveen Dynamic Municipal Opportunities Fund
NEV	Nuveen Enhanced Municipal Value Fund
NID	Nuveen Intermediate Duration Municipal Term Fund
NIQ	Nuveen Intermediate Duration Quality Municipal Term Fund
NZF	Nuveen Municipal Credit Income Fund
NMCO	Nuveen Municipal Credit Opportunities Fund
NMZ	Nuveen Municipal High Income Opportunity Fund
NMI	Nuveen Municipal Income Fund, Inc.
NUV	Nuveen Municipal Value Fund, Inc.
NAD	Nuveen Quality Municipal Income Fund
NIM	Nuveen Select Maturities Municipal Fund
NXP	Nuveen Select Tax-Free Income Portfolio

#### State-Specific Funds:

NAZ	Nuveen Arizona Quality Municipal Income Fund
NKX	Nuveen California AMT-Free Quality Municipal Income Fund
NCA	Nuveen California Municipal Value Fund
NAC	Nuveen California Quality Municipal Income Fund
NXC	Nuveen California Select Tax-Free Income Portfolio
NKG	Nuveen Georgia Quality Municipal Income Fund
NMT	Nuveen Massachusetts Quality Municipal Income Fund
NMS	Nuveen Minnesota Quality Municipal Income Fund
NOM	Nuveen Missouri Quality Municipal Income Fund
NXJ	Nuveen New Jersey Quality Municipal Income Fund
NRK	Nuveen New York AMT-Free Quality Municipal Income Fund
NNY	Nuveen New York Municipal Value Fund
NAN	Nuveen New York Quality Municipal Income Fund
NXN	Nuveen New York Select Tax-Free Income Portfolio
NUO	Nuveen Ohio Quality Municipal Income Fund
NQP	Nuveen Pennsylvania Quality Municipal Income Fund
NPV	Nuveen Virginia Quality Municipal Income Fund

### Federally Exempt Interest Dividends

All interest income dividends paid in the 2022 calendar year by each fund listed above that are designated as Exempt Interest Dividends are entirely exempt from regular federal individual income taxes (“federally Exempt Interest Dividends”). Although federally Exempt Interest Dividends are not subject to regular federal taxation, these dividends must be reported on your 2022 federal income tax return. The amount of federally Exempt Interest Dividends will be reported on your Form 1099-DIV and 2022 year-end closed-end fund account statement.

## **Information Regarding Alternative Minimum Tax**

A portion of the federally Exempt Interest Dividends paid by the funds in 2022 was from private activity municipal bonds, which are generally higher yielding than comparable bonds. The private activity municipal bond interest portion of these dividends may be subject to the federal Alternative Minimum Tax (“AMT”) for some investors.

The tables below (Table A & Table C) provide the percentage of federally Exempt Interest Dividends paid by the funds during 2022 (assuming shares of your fund were held for the entire 2022 calendar year) to be included as a preference item in calculating the federal AMT. ***Your tax advisor can provide you with more detailed information regarding federal AMT, which only affects certain investors.***

## **Information Specific to Shareholders of State Specific Funds**

State tax laws vary with regard to state and local taxation of federally Exempt Interest Dividends. Many states provide that interest on all home state municipal bonds are not subject to state and local taxes. Other states do not provide for tax exemption on federally Exempt Interest Dividends earned on home state bonds if the bonds are owned indirectly through an investment in a regulated investment company. Further, other states, such as Wisconsin, limit the tax exemption on federally Exempt Interest Dividends to certain specified home state bonds. Additionally, in many states the federally Exempt Interest Dividends that are derived from interest on bonds issued by U.S. Territories and U.S. Possessions are exempt from state and local taxes.

The following Table A provides the percentage of federally Exempt Interest Dividend income earned by each Nuveen state specific municipal closed-end fund during 2022 (assuming shares of your fund were held for the entire 2022 calendar year) in its home jurisdiction, in U.S. Territories and Possessions, and other states in which these funds had investments.

Depending on your state tax laws, this information may be used in determining the dividend amount that may be exempt from your state and/or local income taxes. You should be aware that some states require a minimum percentage of home state bonds to permit the state tax exemption. ***Consult your tax advisor to determine whether such interest is exempt from your state and/or local taxes.***



### **Information Specific to Utah Shareholders:**

Utah generally limits the tax exemption on federally Exempt Interest Dividends to Utah home state bonds, interest derived on bonds issued by U.S. Territories and Possessions, interest derived on bonds issued by most non-federal-government entities outside of Utah purchased prior to January 1, 2003, and/or interest derived on bonds issued by states that don't impose an income tax on Utah municipal bonds.

Additional information to help you prepare your 2022 Utah state income tax returns will be available in mid to late January on the Nuveen website at [www.nuveen.com/en-us/investments/tax-information-forms-and-applications#closed-end-funds](http://www.nuveen.com/en-us/investments/tax-information-forms-and-applications#closed-end-funds).

### **Information Specific to Tennessee Shareholders:**

Tennessee repealed its tax on dividend and interest income for all tax periods beginning on or after January 1, 2021. Please consult your tax advisor regarding how this change affects your investment in the Funds.

### **Information Specific to Massachusetts Shareholders:**

As of January 1, 2022, Massachusetts adopted the Internal Revenue Code in effect on January 1, 2022. Please consult your tax advisor regarding how this change affects your investment in the Funds.

### **Information Specific to Shareholders of National Funds:**

The following Table C provides the percentage of federally Exempt Interest Dividend income earned by each Nuveen national municipal closed-end fund during 2022 (assuming shares of your fund were held for the entire 2022 calendar year) and each of the various states and U.S. Territories and Possessions in which these funds had investments. Depending on your state tax laws, this information may be used in determining the dividend amount that may be exempt from your state and/or local income taxes. You should be aware that some states require a minimum percentage of home state bonds to permit the state tax exemption. ***Consult your tax advisor to determine whether such interest is exempt from your state and/or local taxes.***

**Table C: AMT percentages and sources of income for national municipal funds**

State	NVG	NUW	NEA	NDMO	NEV	NID	NIQ	NZF
AL	1.30%	0.00%	0.76%	1.71%	0.49%	0.13%	2.00%	0.60%
AK	0.24%	0.13%	0.00%	0.11%	0.00%	0.00%	0.09%	0.18%
AZ	1.63%	1.82%	1.02%	4.95%	0.73%	0.58%	1.37%	1.04%
AR	0.17%	0.00%	0.09%	2.52%	0.51%	0.48%	0.00%	0.13%
CA	8.34%	14.50%	5.43%	8.41%	12.09%	8.13%	7.88%	15.65%
CO	6.83%	5.08%	7.57%	14.88%	2.38%	3.37%	11.37%	3.75%
CT	2.98%	0.00%	0.39%	0.06%	0.10%	0.14%	0.00%	0.24%
DE	0.07%	0.18%	0.21%	0.00%	0.00%	0.00%	0.00%	0.00%
DC	2.51%	0.91%	2.71%	0.55%	0.93%	1.46%	2.25%	0.38%
FL	3.00%	3.59%	4.31%	14.77%	9.06%	11.07%	4.11%	6.87%
GA	1.93%	2.54%	2.11%	0.51%	0.18%	0.38%	2.79%	0.67%
GQ	0.23%	0.00%	0.09%	0.18%	3.23%	1.97%	0.00%	0.15%
HI	0.25%	0.00%	0.01%	0.00%	0.00%	1.27%	1.44%	0.16%
ID	0.60%	0.00%	0.17%	0.14%	0.00%	0.30%	0.00%	0.05%
IL	15.58%	8.56%	11.00%	3.45%	15.52%	13.41%	9.77%	17.92%
IN	1.43%	0.44%	1.57%	0.72%	1.91%	1.10%	1.28%	1.97%
IA	1.28%	0.00%	0.77%	0.29%	0.34%	0.65%	0.00%	0.44%
KS	0.27%	0.00%	0.22%	0.06%	2.13%	2.22%	0.00%	0.18%
KY	1.30%	3.26%	0.61%	0.87%	0.78%	0.75%	4.18%	1.28%
LA	0.79%	0.00%	1.54%	0.81%	4.39%	0.94%	0.74%	1.54%
ME	0.91%	0.72%	0.43%	0.00%	0.00%	0.01%	2.28%	0.22%
MD	1.27%	3.57%	0.83%	1.20%	0.11%	0.59%	0.49%	0.41%
MA	1.71%	0.00%	1.10%	0.35%	0.62%	0.11%	0.40%	0.51%
MI	1.21%	0.86%	7.87%	0.17%	0.00%	2.50%	7.59%	0.77%
MN	1.20%	0.91%	1.98%	0.24%	0.00%	0.05%	1.18%	0.55%
MS	0.11%	0.00%	0.16%	0.00%	0.00%	0.28%	0.17%	0.00%
MO	1.49%	0.00%	3.13%	0.60%	0.20%	0.93%	0.90%	1.86%
MT	0.04%	0.52%	0.26%	0.00%	0.44%	0.00%	1.19%	0.02%
NE	0.60%	0.13%	0.70%	0.01%	0.00%	0.17%	1.09%	0.37%
NV	0.68%	4.86%	1.26%	0.50%	0.00%	0.41%	1.74%	0.11%
NH	0.41%	0.00%	0.11%	0.11%	0.00%	0.00%	0.00%	0.00%
NJ	3.69%	7.67%	4.19%	1.95%	7.40%	8.04%	3.25%	4.11%
NM	0.08%	0.00%	0.05%	1.40%	0.00%	0.27%	0.00%	0.12%
NY	4.59%	5.29%	5.38%	12.13%	6.83%	8.52%	6.72%	10.32%
NC	0.26%	0.90%	3.25%	0.02%	0.45%	0.39%	0.00%	0.15%
ND	1.14%	0.00%	0.60%	0.00%	0.56%	0.48%	0.73%	1.43%
OH	5.95%	3.96%	4.20%	5.83%	5.01%	3.55%	2.94%	1.93%
OK	0.48%	0.15%	0.21%	0.08%	1.41%	0.90%	0.21%	1.71%
OR	0.06%	0.00%	1.21%	0.22%	0.00%	0.20%	0.82%	0.10%
PA	3.40%	5.07%	3.72%	1.40%	4.84%	4.10%	1.58%	3.08%
RQ	3.22%	3.33%	1.28%	6.01%	4.20%	8.54%	1.77%	4.57%
RI	1.49%	0.00%	0.72%	0.00%	0.00%	0.28%	0.00%	0.14%
SC	1.31%	1.58%	2.57%	0.63%	1.58%	1.51%	1.12%	1.58%
SD	0.56%	0.00%	0.74%	0.18%	0.00%	0.00%	0.00%	0.12%
TN	0.78%	2.75%	0.63%	0.14%	0.34%	0.44%	7.75%	0.90%
TX	7.13%	10.19%	7.18%	5.30%	1.22%	3.59%	4.53%	8.25%
VQ	0.09%	0.00%	0.03%	0.25%	0.00%	0.06%	0.03%	0.00%
UT	0.14%	0.53%	0.23%	0.29%	0.51%	0.05%	0.37%	0.23%
VT	0.03%	0.00%	0.17%	0.00%	0.00%	0.00%	0.00%	0.00%
VA	0.48%	1.06%	0.20%	1.36%	2.11%	1.16%	0.62%	0.45%
WA	0.89%	2.97%	1.80%	0.39%	1.63%	1.92%	0.94%	0.88%
WV	1.06%	1.90%	0.77%	0.86%	0.00%	0.16%	0.00%	0.30%
WI	2.81%	0.07%	2.28%	3.39%	5.77%	2.44%	0.32%	1.61%
WY	0.00%	0.00%	0.18%	0.00%	0.00%	0.00%	0.00%	0.00%
<b>Total</b>	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%
<b>AMT%</b>	0.00%	0.00%	0.00%	19.15%	11.79%	14.72%	6.29%	15.50%

**Table C: AMT percentages and sources of income for national municipal funds**

NMCO	NMZ	NMI	NUV	NAD	NIM	NXP	State
4.10%	1.30%	1.99%	0.15%	0.81%	1.62%	0.00%	AL
0.00%	0.01%	0.00%	0.06%	0.12%	0.31%	0.00%	AK
2.50%	3.01%	3.19%	0.92%	1.79%	2.92%	2.81%	AZ
1.26%	0.28%	0.06%	0.00%	0.16%	0.20%	0.36%	AR
5.41%	10.76%	12.17%	7.70%	8.06%	9.16%	19.84%	CA
6.50%	9.66%	11.79%	6.63%	6.88%	2.18%	6.98%	CO
0.00%	0.11%	0.47%	0.56%	0.66%	0.79%	4.12%	CT
0.00%	0.20%	0.11%	0.03%	0.14%	0.25%	0.00%	DE
2.41%	0.86%	0.10%	2.07%	1.18%	0.67%	1.99%	DC
15.49%	13.42%	6.35%	4.48%	5.93%	5.07%	3.15%	FL
3.11%	0.29%	1.52%	2.81%	1.23%	1.46%	0.44%	GA
0.31%	0.02%	0.00%	0.03%	0.52%	0.33%	1.75%	GQ
0.33%	0.00%	1.22%	0.36%	1.03%	1.44%	0.12%	HI
0.00%	0.60%	0.00%	0.07%	0.43%	0.47%	1.27%	ID
8.13%	11.25%	10.92%	12.13%	10.10%	14.21%	10.66%	IL
0.60%	0.87%	2.15%	1.92%	0.99%	1.19%	1.77%	IN
0.87%	0.46%	0.32%	0.00%	0.26%	0.21%	0.33%	IA
0.59%	0.15%	0.12%	0.00%	0.10%	0.29%	0.00%	KS
0.00%	2.31%	0.00%	1.77%	0.54%	1.67%	0.19%	KY
1.00%	0.89%	1.58%	0.67%	1.99%	2.95%	0.26%	LA
0.00%	0.00%	0.59%	0.87%	0.33%	0.28%	0.00%	ME
0.28%	1.05%	0.62%	1.32%	6.26%	0.85%	0.03%	MD
0.93%	0.36%	0.49%	1.05%	0.72%	0.77%	3.77%	MA
0.50%	1.27%	1.47%	2.45%	1.72%	2.35%	0.62%	MI
0.56%	0.73%	2.16%	0.23%	1.30%	0.37%	0.00%	MN
0.00%	0.06%	1.36%	0.00%	0.47%	0.18%	0.00%	MS
0.13%	1.35%	3.27%	0.19%	2.98%	0.28%	1.96%	MO
0.00%	0.00%	0.00%	0.56%	0.10%	0.47%	0.00%	MT
0.00%	0.00%	0.26%	0.30%	0.14%	0.68%	0.61%	NE
2.17%	0.76%	0.00%	2.35%	0.35%	0.37%	0.64%	NV
0.04%	0.00%	0.00%	0.00%	0.34%	0.61%	0.26%	NH
2.31%	0.68%	2.92%	5.09%	3.02%	7.48%	5.83%	NJ
0.60%	0.40%	0.00%	0.00%	0.29%	0.26%	1.00%	NM
7.10%	5.43%	3.82%	6.93%	5.72%	4.90%	2.27%	NY
0.00%	0.00%	2.31%	1.04%	0.98%	1.37%	0.00%	NC
0.03%	0.04%	0.12%	0.09%	0.14%	0.70%	0.00%	ND
6.53%	4.75%	1.43%	4.62%	3.56%	5.48%	1.38%	OH
0.63%	1.20%	0.54%	1.23%	0.21%	1.79%	0.20%	OK
0.04%	0.06%	0.22%	0.62%	1.59%	1.23%	2.32%	OR
4.20%	1.48%	3.38%	1.23%	3.51%	4.65%	2.09%	PA
7.13%	6.58%	2.26%	1.78%	1.12%	3.07%	2.29%	RQ
0.00%	0.21%	0.00%	0.00%	0.36%	0.55%	0.00%	RI
0.07%	1.02%	0.55%	2.44%	2.53%	0.18%	0.27%	SC
0.00%	0.04%	0.40%	0.00%	0.47%	0.07%	0.14%	SD
0.57%	0.81%	2.52%	0.72%	0.89%	1.31%	0.31%	TN
2.07%	4.39%	6.22%	16.27%	11.62%	5.91%	9.21%	TX
2.50%	1.02%	0.27%	0.00%	0.21%	0.00%	0.20%	VQ
0.25%	0.37%	0.00%	0.69%	0.87%	0.00%	0.00%	UT
0.00%	0.03%	0.00%	0.00%	0.00%	0.00%	0.00%	VT
1.02%	2.21%	2.26%	1.01%	1.53%	1.16%	2.77%	VA
0.19%	0.84%	0.30%	3.18%	1.84%	1.75%	4.30%	WA
0.35%	0.33%	0.95%	0.64%	0.59%	0.44%	0.32%	WV
7.19%	6.08%	5.25%	0.74%	1.32%	3.01%	1.17%	WI
0.00%	0.00%	0.00%	0.00%	0.00%	0.09%	0.00%	WY
100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	<b>Total</b>
25.70%	13.89%	9.56%	3.95%	18.45%	16.02%	6.95%	<b>AMT%</b>