

**Nuveen Fund Board Director Attendance
2022 Closed-End Fund Annual Shareholders's Meetings**

	Jack B. Evans	William C. Hunter	Amy T. Lancellotta	Joanne T. Medero	Albin F. Moschner	John K. Nelson	Judith M. Stockdale	Carole E. Stone	Matthew Thornton	Terence J. Toth	Margaret L. Wolff	Robert L. Young
April 8, 2022	Nuveen Core Equity Alpha Fund (JCE)	X	X			X	X	X	X	X	X	X
	Nuveen Core Plus Impact Fund (NPCT)											
	Nuveen Corporate Income 2023 Target Term Fund (JHAA)											
	Nuveen Credit Opportunities 2022 Target Term Fund (JCO)											
	Nuveen Credit Strategies Income Fund (JQC)											
	Nuveen Dow30 sm Dynamic Overwrite Fund (DIAX)											
	Nuveen Emerging Markets Debt 2022 Target Term Fund (JEMD)											
	Nuveen Floating Rate Income Fund (JFR)											
	Nuveen Floating Rate Income Opportunity Fund (JRO)											
	Nuveen Georgia Quality Municipal Income Fund (NKG)											
	Nuveen Global High Income Fund (JGH)											
	Nuveen Intermediate Duration Municipal Term Fund (NID)											
	Nuveen Intermediate Duration Quality Municipal Term Fund (NIQ)											
	Nuveen Minnesota Quality Municipal Income Fund (NMS)											
	Nuveen Missouri Quality Municipal Income Fund (NOM)											
	Nuveen Mortgage and Income Fund (JLS)											
	Nuveen Multi-Asset Income Fund (NMAI)											
	Nuveen Multi-Market Income Fund (JMM)											
	Nuveen Municipal Credit Opportunities Fund (NMCO)											
	Nuveen NASDAQ 100 Dynamic Overwrite Fund (QQQX)											
	Nuveen Preferred & Income Opportunities Fund (JPC)											
	Nuveen Preferred & Income Securities Fund (JPS)											
	Nuveen Preferred and Income Term Fund (JPI)											
	Nuveen Preferred and Income Fund (JPT)											
	Nuveen Real Asset Income and Growth Fund (JRI)											
	Nuveen Real Estate Income Fund (JRS)											
Nuveen S&P 500 Buy-Write Income Fund (BXXM)												
Nuveen S&P 500 Dynamic Overwrite Fund (SPXX)												
Nuveen Senior Income Fund (NSL)												
Nuveen Short Duration Credit Opportunities Fund (JSD)												
Nuveen Virginia Quality Municipal Income Fund (NPV)												
August 5, 2022	Nuveen AMT-Free Municipal Credit Income Fund (NVG)	X	X			X	X					
	Nuveen AMT-Free Municipal Value Fund (NUW)											
	Nuveen AMT-Free Quality Municipal Income Fund (NEA)											
	Nuveen California Select Tax-Free Income Portfolio (NXC)											
	Nuveen Dynamic Municipal Opportunities Fund (NDMO)											
	Nuveen Enhanced Municipal Value Fund (NEV)											
	Nuveen Municipal Credit Income Fund (NZF)											
	Nuveen Municipal High Income Opportunity Fund (NMZ)											
	Nuveen Municipal Income Fund, Inc. (NMI)											
	Nuveen Municipal Value Fund, Inc. (NUV)											
	Nuveen New York AMT-Free Quality Municipal Income Fund (NRK)											
	Nuveen New York Municipal Value Fund, Inc. (NNY)											
	Nuveen New York Quality Municipal Income Fund (NAN)											
	Nuveen New York Select Tax-Free Income Portfolio (NXN)											
	Nuveen Quality Municipal Income Fund (NAD)											
Nuveen Select Maturities Municipal Fund (NIM)												
Nuveen Taxable Municipal Income Fund (NBB)												
November 18, 2022	Nuveen California Municipal Value Fund, INC (NCA)	X	X		X	X	X		X			
	Nuveen California Municipal Value Fund 2 (NCB)											
	Nuveen Michigan Quality Municipal Income Fund (NUM)											
	Nuveen New Jersey Municipal Value Fund (NJV)											
	Nuveen Pennsylvania Municipal Value Fund (NPN)											
	Nuveen AMT-Free Quality Municipal Income Fund (Preferred Shareholders only) (NEA)											
	Nuveen Maryland Quality Municipal Income Fund (NMY)											
	Nuveen New York Municipal Value Fund 2 (NYV)											
	Nuveen New York Municipal Value Fund, Inc. (NNY)											
	Nuveen Quality Municipal Income Fund (Preferred Shareholders only) (NAD)											

This information is provided in accordance with the *Nuveen Fund Board Nominating and Governance Committee Key Practices* (amended November 2015), which states:

“10. ANNUAL MEETING ATTENDANCE. It is the goal of the Board of Directors of the Funds to have as many members of the Board of Directors as is reasonable in attendance at annual shareholders’ meetings. As required under the Charter, the Committee hereby establishes a policy of the Board that the directors shall make reasonable efforts to attend the annual meeting of each of the Funds, while also recognizing that each director serves as a director for a number of Funds and that it may not be possible or practical to attend all of the annual meetings of the Funds. At the largest grouping of these annual fund company meetings, all of the directors regularly attend and have done so for many years. At other smaller meetings scattered throughout the year, it may not be practical for Board members to attend all of these meetings.

“The Committee shall direct the Secretary to compile information relating to the attendance of the directors at each annual meeting.

“This policy and the attendance information relating to the most recent annual meeting shall be posted to the website for the Funds and the website address for such information shall be set forth in the Proxy of the Funds, in order to provide the Fund an exemption from